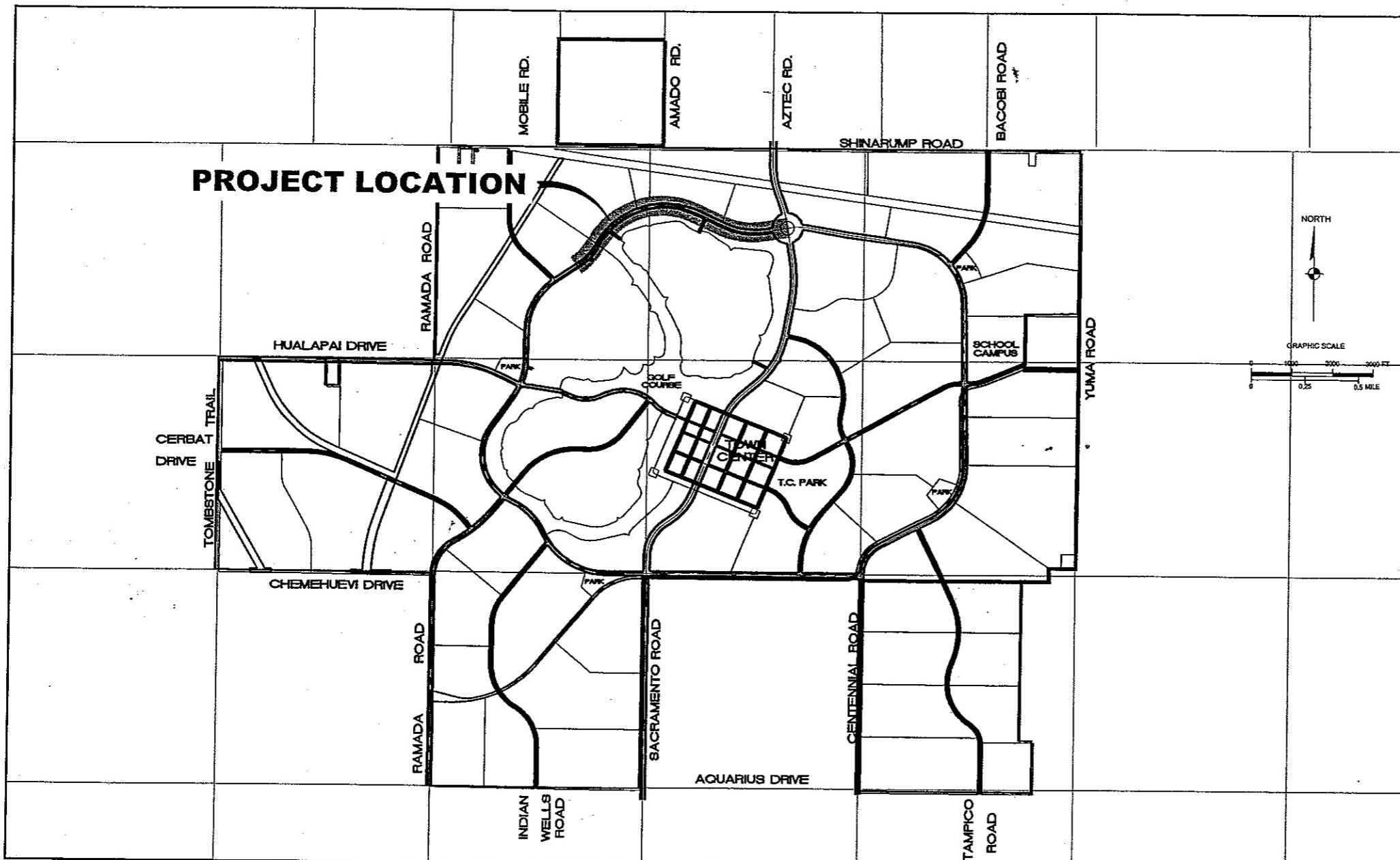


WEST LOOP ROAD SECTION 2 IMPROVEMENTS AT GOLDEN VALLEY RANCH FOR RHODES HOMES ARIZONA, LLC

**SHEET INDEX**

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| G-1 | COVER SHEET |
| G-2 | GENERAL NOTES AND ABBREVIATIONS |
| TS-1 | TYPICAL SECTION |
| HC-1 TO HC-3 | HORIZONTAL CONTROL |
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UTILITIES

| | |
|-----------------------|--|
| SEWAGE DISPOSAL: | (TO BE DETERMINED) |
| WATER: | (TO BE DETERMINED) |
| ELECTRICITY: | UNISOURCE ENERGY 2498 AIRWAY AVENUE (928) 681-4129 |
| TELEPHONE: | FRONTIER COMM. 2202 STOCKTON HILL (928) 753-3000 |
| GAS: | UNISOURCE ENERGY 2498 AIRWAY AVENUE (928) 681-4129 |
| SOLID WASTE COLLECT: | WASTE MANAGEMENT 3250 GATLIN DRIVE (928) 718-4900 |
| SOLID WASTE DISPOSAL: | MOHAVE COUNTY 201 N. 4TH STREET (928) 753-0723 |
| FIRE PROTECTION: | GOLDEN VALLEY DIST. 3327 N. MAYER RD. (928) 565-3479 |

OWNER

SOUTH DAKOTA CONSERVANCY LLC
4730 S. FORT APACHE RD
SUITE 300
LAS VEGAS, NEVADA 89147
(702) 873-5538

DEVELOPER

RHODES HOMES ARIZONA LLC
2215 HUALAPAI MTN. RD.
SUITE H
KINGMAN, ARIZONA 86401
(928) 718-2210

ENGINEER / SURVEYOR

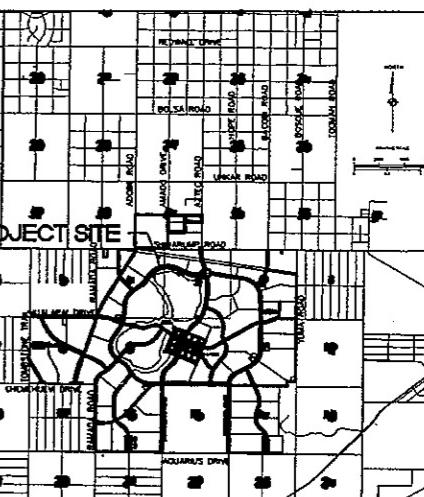
STANLEY CONSULTANTS, INC.
5820 S. EASTERN AVENUE
SUITE 200
LAS VEGAS, NEVADA 89119
(702) 369-9396

LEGAL DESCRIPTION

A DIVISION OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4
OF SECTION 34, TOWNSHIP 21 NORTH, RANGE 18 WEST,
GILA AND SALT RIVER MERIDIAN, MOHAVE COUNTY, ARIZONA

BASIS OF BEARINGS

NORTH 00°12'47" EAST - THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4)
OF SECTION 27, TOWNSHIP 21 NORTH, RANGE 18 WEST, GILA & SALT RIVER
MERIDIAN, MOHAVE COUNTY, ARIZONA, AS DETERMINED BY THE ARIZONA
COORDINATE SYSTEM OF 1983 (AZ83-WF), WEST ZONE, INTERNATIONAL FOOT,
UTILIZING FAST STATIC OBSERVATIONS PROCESSED BY NGS-OPUS. M.C.S.D. "SD
35" = LATITUDE 35°09'22.43032"N, LONGITUDE 114°10'58.56309"W (NAD '83)
HEIGHT 2466.56824 ft (NAVD '88)

**VICINITY MAP****ENGINEERS ESTIMATED QUANTITIES**

| SEWER | |
|--|----------|
| ITEM | QUANTITY |
| 18" P.V.C. SEWER LINE | 5,409 LF |
| 15" P.V.C. SEWER LINE | 3,135 LF |
| 8" P.V.C. SEWER LINE | 800 LF |
| 15" SEWER STUB AND CAP | 1 EA |
| 8" SEWER STUB AND CAP | 8 EA |
| 60" DIA. SANITARY SEWER MANHOLES | 21 EA |
| STORM DRAIN | |
| ITEM | QUANTITY |
| 27" RCP STORM DRAIN | 000 LF |
| SCUPPER | 000 EA |
| CURB AND GATE INLET | 000 EA |
| 48" DIA. STORM DRAIN MANHOLE | 000 EA |
| WATER | |
| ITEM | QUANTITY |
| 24" C900 PVC WATER LINE | 7,938 LF |
| 24" BUTTERFLY VALVE | 7 EA |
| 24" X 24" X 24" TEE | 1 EA |
| 24" X 24" X 6" TEE | 2 EA |
| 24" X 24" X 6" CROSS | 6 EA |
| 24" X 24" X 6" X 6" CROSS | 3 EA |
| 24" CAP WITH BLOW-OFF PER M.A.G. STD. DTL. # 390 | 1 EA |
| 24" 45° BEND | 8 EA |
| 24" 22.5° BEND | 000 EA |
| 8" C900 PVC WATER LINE | 1,197 LF |
| 8" GATE VALVE | 8 EA |
| 8" CAP WITH BLOW-OFF PER M.A.G. STD. DTL. # 390 | 8 EA |
| 8" 22.5° BEND | 2 EA |
| 6" C900 PVC WATER LINE | 472 LF |
| 6" GATE VALVE | 8 EA |
| 6" CAP WITH BLOW-OFF PER M.A.G. STD. DTL. # 390 | 000 EA |
| 6" FIRE HYDRANT ASSEMBLY PER M.A.G. STD. DTL. # 360 | 8 EA |
| 2" COPPER WATER LATERAL W/ BOX FOR FUTURE 2" WATER LINE | 5 EA |
| PER CITY OF KINGMAN STD. DTL. # 344 | |
| (2) 4" PVC IRRIGATION SLEEVES AND (1) 6" IRRIGATION SLEEVE | 16 EA |
| STREETS | |
| ITEM | QUANTITY |
| A/C. PAVEMENT | 000 CY |
| TYPE B AGGREGATE BASE | 000 CY |
| STREET NAME SIGN | 000 EA |
| STOP SIGN | 000 EA |
| SPEED LIMIT SIGN | 000 EA |
| NO PARKING SIGN | 000 EA |
| 30' ROLL CURB & GUTTER | 000 LF |
| 24" GIBSON CURB & GUTTER | 000 LF |
| SWALE | 000 SF |
| VALLEY GUTTER | 000 SF |
| DRIVEWAY | 000 EA |
| ALLEY ENTRANCE | 000 EA |
| STREET LIGHT AND POLE | 000 EA |
| STREETLIGHT CONDUIT | 000 LF |
| SURVEY MONUMENTS | 000 EA |

NOTE: QUANTITIES SHOWN ARE APPROXIMATIONS ONLY.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR
CALCULATING THE EXACT QUANTITIES.



RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH
WEST LOOP ROAD SECTION 2 IMPROVEMENTS
COVER SHEET
ARIZONA
MOHAVE COUNTY

G-1
1 OF 43 SHEETS
SC PROJECT#
18449.03.03

Sheet
G-1
1 of 43 sheets
SC Project#
18449.03.03

GENERAL NOTES

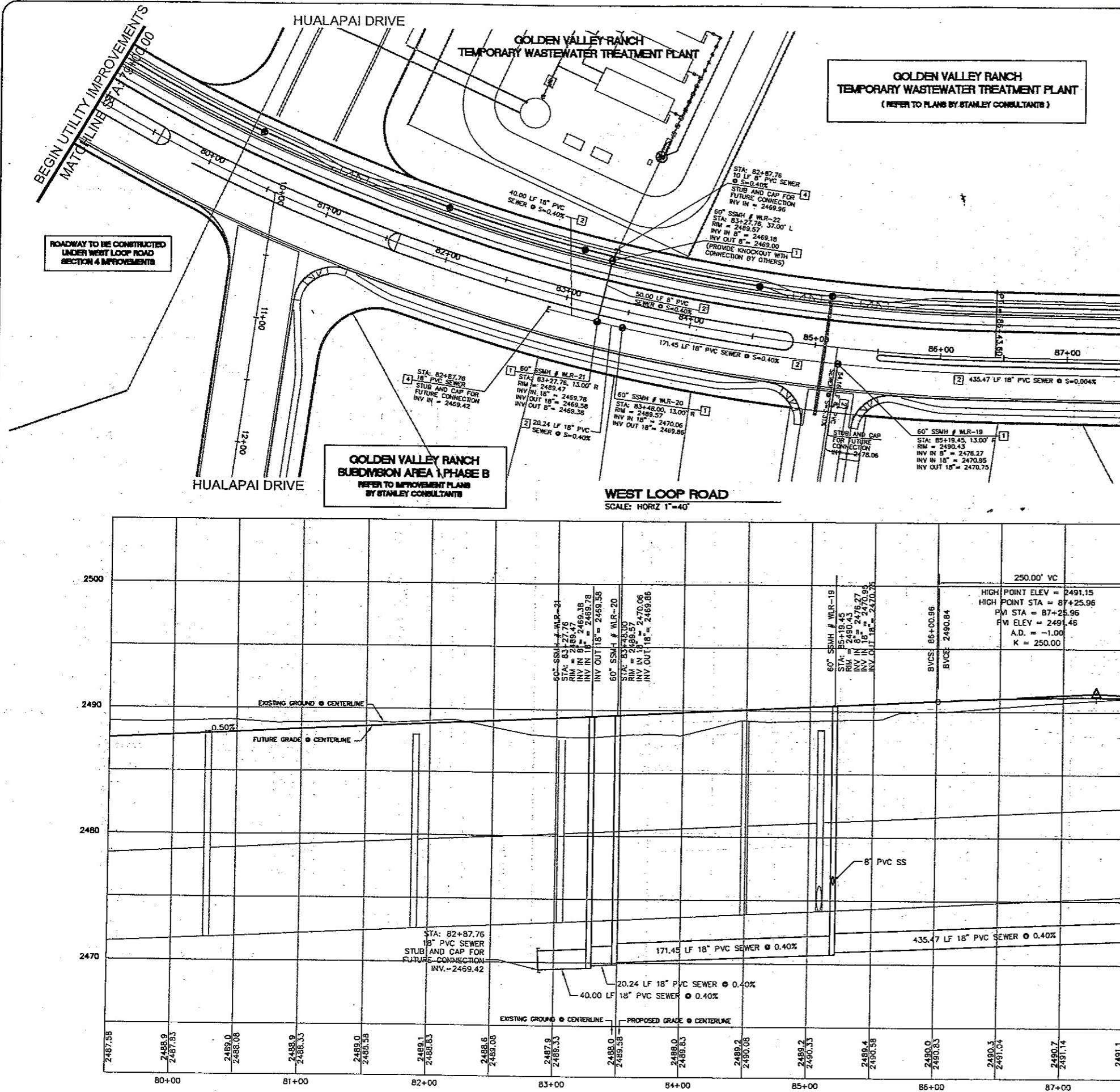
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH MOHABE COUNTY STANDARD SPECIFICATIONS AND STANDARD DETAILS, AND OTHER COUNTY ADDITIONAL STANDARDS, UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER, OR UNLESS APPROVED AS A PERMIT OF EXCEPTION BY HEARING OF THE PLANNING AND ZONING COMMISSION AND THE BOARD OF SUPERVISORS.
2. THE CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY USE PERMIT FOR ANY WORK TO BE PERFORMED WITHIN THE RIGHT-OF-WAY UNDER THE DIRECTION OF CONTROL OF MOHABE COUNTY. THE COUNTY RESERVES THE RIGHT OF SUPPLEMENTAL INSPECTION OF ALL CONSTRUCTION ACTIVITIES PERFORMED WITHIN THE COUNTY RIGHT-OF-WAY. THE CONTRACTOR SHALL NOTIFY THE COUNTY BY A COURTESY CALL PRIOR TO ENGAGING ANY MAJOR CONSTRUCTION ACTIVITIES WITHIN THE COUNTY RIGHT-OF-WAY.
3. THIS SET OF PLANS HAS BEEN REVIEWED FOR COMPLIANCE WITH COUNTY REQUIREMENTS PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS. HOWEVER, SUCH REVIEW SHALL NOT PREVENT THE COUNTY FROM REQUIRING CORRECTION OF ERRORS IN PLANS FOUND TO BE IN VIOLATION OF ANY LAW OR ORDINANCE. REVIEW AND APPROVAL OF PLANS DOES NOT RELEASE ANY DEVELOPER OR ENGINEER FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS ON SAID PLANS.
4. IMPROVEMENTS WILL NOT BE ACCEPTED UNTIL CERTIFIED RECORD DRAWINGS (AS-BUILT) INCLUDING ALL TEST RESULTS, HAVE BEEN SUBMITTED AND ACCEPTED BY THE COUNTY.
5. THE DEVELOPER, ANY SUCCESSORS, AND ASSIGNS, WILL HOLD THE COUNTY OF MOHABE, ITS OFFICERS, EMPLOYEES, AND AGENTS HARMLESS FROM ANY AND ALL CLAIMS, ACTIONS, AND LITIGATION RELATING TO THE USE OF THIS DEVELOPMENT AS SHOWN HEREON, NOW AND IN THE FUTURE, BY REASON OF FLOODING, FLOWAGE, EROSION, OR DAMAGE CAUSED BY WATER, WHETHER SURFACE FLOOD OR RAINFALL.
6. DRAINAGE WILL REMAIN IN ITS NATURAL STATE AND WILL NOT BE ALTERED, DISTURBED, OR OBSTRUCTED OTHER THAN AS SHOWN ON THIS DEVELOPMENT PLAN.
7. A FLOORPLAN USE PERMIT AND FINISHED FLOOR ELEVATION CERTIFICATE ARE REQUIRED FOR ALL PARCELS LOCATED WITHIN THE FEMA DESIGNATED AREAS OF SPECIAL FLOOD HAZARD FOR THE 100-YEAR STORM.
8. ANY RELOCATION, MODIFICATION, ETC., OF EXISTING UTILITIES AND/OR PUBLIC IMPROVEMENTS NECESSITATED BY PROPOSED DEVELOPMENT SHALL BE AT NO EXPENSE TO THE COUNTY.
9. THE CONTRACTOR SHALL FOLLOW ALL BLUE STAKE LAWS AND NOTIFY BLUE STAKE (1-800-STAKE-IT), BEFORE DIGGING.
10. ALL GRADING SHALL CONFORM TO THE UNIFORM BUILDING CODE, AS ADOPTED AND MODIFIED BY MOHABE COUNTY.
11. DELETERIOUS MATERIAL AS DEEMED UNSUITABLE BY THE SOILS ENGINEER FOR USE AS COMPACTED FILL SHALL BE EXCAVATED AND REMOVED FROM THE SITE.
12. WHERE SOIL IS TO BE REMOVED FROM THE SITE, THE CONTRACTOR SHALL DESIGNE THE LOCATION WHERE THE FILL WILL BE PLACED AND OBTAIN A LETTER FROM THE OWNER OF THE PROPERTY ALLOWING THE PLACEMENT OF THE MATERIAL. PLACEMENT OF THIS MATERIAL SHALL BE SUBJECT TO THE APPLICABLE REQUIREMENTS AND PERMITS OF THE GOVERNING JURISDICTION.
13. ALL REQUIRED TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTC), 2001 EDITION.
14. EXCEPT FOR THE WORK PERFORMED UNDER THE TERMS OF A FRANCHISE, OR WORK PROVIDED BY AN INSTITUTIONAL AGENCY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL WORK IS INSPECTED AND TESTED BY, OR UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER WHO SHALL HOLD A VALID REGISTRATION IN THE STATE OF ARIZONA.
15. THE CONTRACTOR SHALL NOT GRADE ANY PARCELS WITH OUTSIDE PRIVATE OWNERSHIP UNTIL PERMISSION TO GRADE HAS BEEN GRANTED BY THE PROPERTY OWNER.
16. THE CONTRACTOR SHALL NOT GRADE ANY ARMY CORPS OF ENGINEERS (ACOE) 404 DESIGNATED WASHES UNTIL 404 PERMIT APPROVAL HAS BEEN GRANTED.
17. AN APPROVED GRADING PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATION FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
18. ALL EXCAVATION AND GRADING OPERATIONS CONDUCTED WITHIN THE COUNTY LIMITS SHALL CONFORM TO THE PLANS. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY DUST CONTROL PERMITS.

SEWER

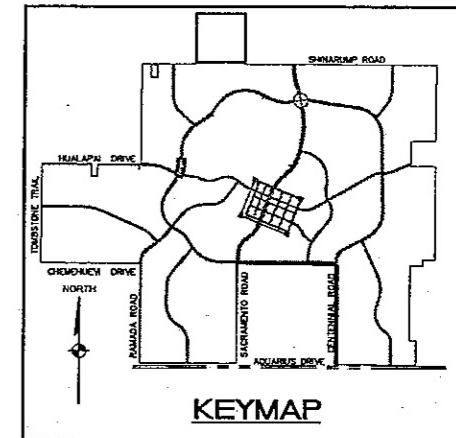
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" AND "UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" SPONSORED AND DISTRIBUTED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.), AND IN ACCORDANCE WITH THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.), CHAPTER 9, TOGETHER WITH THESE PLANS.
2. THE LOCATION OF UTILITIES SHOWN IS BASED UPON BEST INFORMATION AVAILABLE. THE LOCATIONS AS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND BURIED CABLES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION BY CALLING:
- BLUE STAKE 1-800-STAKE-IT
- AT LEAST 2 WORKING DAYS IN ADVANCE, THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES IN PROTECTING AND WORKING AROUND THEIR UTILITIES & SERVICE LINES.
3. WATER/SEWER SEPARATION SHALL MEET THE REQUIREMENTS OF M.A.G. STANDARD DETAILS 404-1 AND RIB-4-502. SEPARATION SHALL BE A MINIMUM OF 2' VERTICAL AND 6' HORIZONTAL.
4. CONTRACTOR SHALL ACQUIRE & PAY FOR ALL NECESSARY PERMITS.
5. SEWER MAIN PIPE AND SERVICE SHALL BE PVC SDR-35, MEETING THE REQUIREMENTS OF A.S.T.M. 3034 AND M.A.G. SECTION 743. INSTALLATION SHALL BE IN ACCORDANCE WITH A.S.T.M. STANDARD SPECIFICATIONS D2321.
6. REQUIRED MANHOLES SHALL BE CONSTRUCTED PER M.A.G. STANDARD DETAIL NO. 420.
7. TRENCHING AND BACKFILL SHALL MEET THE REQUIREMENTS OF M.A.G. STANDARD SPECIFICATION NO. 601 AND A.A.C. RIB-9-E301.D.2.I. AND RIB-9-E301.D.2.R. COMPACTION DENSITIES SHALL BE 95% FROM THE SURFACE TO 2' BELOW SURFACE.
8. ALL EXISTING STREET PAVEMENT DISTURBED BY CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH M.A.G. STANDARD DETAIL NO. 200.
9. ALL MANHOLE FRAME AND COVER GRADE ADJUSTMENTS REQUIRED SHALL MEET THE REQUIREMENTS OF M.A.G. STANDARD DETAIL NO. 422.
10. SHAPING OF ALL SEWER MANHOLE BOTTOMS SHALL BE PER M.A.G. STANDARD SPECIFICATIONS NO. 625.3.1.
11. ALL MANHOLES AND DROP SEWER CONNECTIONS SHALL BE CONSTRUCTED AS REQUIRED BY M.A.G. SECTION 625. FOR MANHOLES THAT HAVE AN ELEVATION DROP BETWEEN INLET AND OUTLET BETWEEN 4'-0" & 6'-0", THE DRAINS SHALL BE DOCUMENTED IN THE MANHOLE FLOOR TO A CONCRETE FILLET/CHANNEL FROM THE INLET SIDE OF THE MANHOLE TO THE OUTLET SIDE WHICH SHALL HAVE A SLOPE AT A MINIMUM OF 1:12. THE DRAINS SHALL BE DEPOSITED FOR A DROP IN EXCESS OF 2.5', REFER TO M.A.G. STANDARD DETAIL NO. 420.
12. ALL SEWER SERVICE CONNECTIONS SHALL MEET THE REQUIREMENTS M.A.G. STANDARD DETAIL NO. 440. TYPE A, NOTE: SEWER SERVICE CROSSING OF WATER MAIN WITHIN THE RIGHT OF WAY MAY REQUIRE PROTECTION PER M.A.G. STD. DET. 404.
13. SEWER CLEANOUT SHALL MEET THE REQUIREMENTS OF M.A.G. STANDARD DETAIL NO. 441.
14. MINIMUM DEPTH OF COVER TO THE TOP OF SEWER PIPE SHALL NOT BE LESS THAN 3 FEET, PER A.A.C. RIB-9-E 301.
15. UTILITY FACILITIES, SHOWN OR NOT SHOWN IN CONFLICT WITH THIS WORK SHALL BE RELOCATED BY THE GENERAL CONTRACTOR AS REQUIRED. THIS ACTIVITY SHALL BE COORDINATED WITH THE OWNER OF THE UTILITY TO PREVENT ANY UNNECESSARY INTERRUPTION OF SERVICE.
16. ALL SEWER MAINS SHALL BE PVC SDR-35 SEWER PIPE AND CONFORM WITH ASTM D-2321 STANDARD SPECIFICATIONS.
17. ALL SEWER LINE SEGMENTS SHALL BE TESTED FOR LEAKAGE AS PER ASTM F-1417-92, REAPPROVED 1998.
18. THE CONTRACTOR SHALL ADJUST VALVES, MANHOLES, CLEAUNOTS, ETC. BOTH OLD AND NEW TO FINISH PAVEMENT GRADE PER M.A.G. STANDARD DETAIL 270 AND 420, PROVIDE CONCRETE ENCASEMENT FLUSH WITH PAVEMENT GRADE.
19. ALL MANHOLES SHALL BE TESTED BY EXTRALATOR OR VACUUM TEST A.A.C. RIB-9-E301.D.3.F.
20. 100 PERCENT OF ALL SEWER MAINS NEWLY CONSTRUCTED SHALL HAVE A DEFLECTION TEST OF THE TOTAL LENGTH PER A.A.C. RIB-9-E301.D.2.L.
21. ALL MANHOLES LOCATED WITHIN DRAINAGE EASEMENTS SHALL HAVE WATERTIGHT LIDS PER A.A.C. RIB-9-E301.D.3.E.
22. CONTRACTOR IS TO FIELD VERIFY THE ELEVATIONS OF EXISTING SEWERS AT CRITICAL POINTS OF TIE-IN AND/OR INTERCEPTION PRIOR TO PROCEEDING WITH THE BALANCE OF SEWER TRENCHING. IF THE FALL BETWEEN CRITICAL POINTS IS PRESENT AT TIME OF CHARGING 24 HOURS LATER ALL WATER MAINS SHALL HAVE GREATER THAN 30 PPM OF CHLORINE PRESENT.
23. CONTRACTOR SHALL INSTALL SEWER SERVICE LINE(S) AS SHOWN ON THE PLANS. THE DEPTH OF THE SEWER SERVICE LINE(S), AT THE POINT OF TERMINATION, SHALL BE DEEP ENOUGH TO SERVICE THE ENTIRE LOT IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE.
24. INSTALL M.A.G. STANDARD DETECTABLE TAPE OR PLASTIC COATED (BLUE FOR WATER AND GREEN FOR SEWER) #8 WIRE FOR ALL WATER AND SEWER LINES.
25. ALL SEWER MAINS SHALL BE TESTED THE FULL LENGTH INSTALLED FOR UNIFORM SLOPE BY LAMP LIGHTING, REMOTE CAMERA, OR SIMILAR METHOD APPROVED BY ADEQ, AND RECORD RESULTS.

WATER

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" AND "UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" SPONSORED AND DISTRIBUTED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.), AND IN ACCORDANCE WITH THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.), CHAPTER 9, TOGETHER WITH THESE PLANS.
2. THE LOCATION OF UTILITIES SHOWN IS BASED UPON BEST INFORMATION AVAILABLE. THE LOCATIONS AS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND BURIED CABLES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION BY CALLING:
- BLUE STAKE 1-800-STAKE-IT
- AT LEAST 2 WORKING DAYS IN ADVANCE, THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES IN PROTECTING AND WORKING AROUND THEIR UTILITIES & SERVICE LINES.
3. CONTRACTOR SHALL ACQUIRE & PAY FOR ALL NECESSARY PERMITS.
4. WATER MAIN SHALL BE PVC PIPE CLASS 150, MEETING THE REQUIREMENTS OF A.W.W.C. C-900.
- WATER SERVICE MATERIAL SHALL MEET THE REQUIREMENTS OF M.A.G. STANDARD SPECIFICATIONS SECTION 755.
5. WATER LINES SHALL BE DISINFECTED IN ACCORDANCE WITH A.D.E.Q. ENGINEERING BULLETIN NO. 8.
6. WATER/SEWER SEPARATION SHALL MEET THE REQUIREMENTS OF RIB-4-502 (TEST PERIOD). SEPARATION SHALL BE A MINIMUM OF 2' VERTICAL AND 6' HORIZONTAL.
7. TRENCHING AND BACKFILL SHALL MEET THE REQUIREMENTS OF M.A.G. STANDARD SPECIFICATION NO. 601 AND A.A.C. RIB-9-E301.D.2.I. AND RIB-9-E301.D.2.R. COMPACTION DENSITIES SHALL BE 95% FROM THE SURFACE TO 2' BELOW SURFACE.
8. CURB STOP WITH FLUSHING PIPES SHALL BE CONSTRUCTED AS REQUIRED BY M.A.G. STANDARD DETAIL NO. 390, TYPE A¹.
9. ALL FITTINGS FOR WATER MAINS SHALL MEET THE REQUIREMENTS OF M.A.G. STANDARD SECTION 333.
10. CONCRETE CURB AND GUTTER SHALL MEET THE REQUIREMENTS OF M.A.G. STANDARD DETAIL 220.
11. SIDEWALKS SHALL BE CONSTRUCTED AS REQUIRED BY M.A.G. STANDARD DETAIL NO. 238 & SHALL CONFORM WITH M.A.G. SPECIFICATION 340.
12. ALL POURED CONCRETE STRUCTURES SHALL MEET THE REQUIREMENTS OF M.A.G. STD SPECIFICATIONS, SECTION 505.
13. THE EXACT POINT OF MATCHING TERMINATION AND OVERLAY, IF REQUIRED, SHALL BE DETERMINED BY THE FIELD BY THE COUNTY ENGINEER OR AUTHORIZED REPRESENTATIVE.
14. THE PAVING CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADJUSTMENT AND PLACEMENT OF CONCRETE COLLARS, FRAMES, COVERS, AND VALVE BOXES AS NECESSARY FOR A COMPLETE JOB AS APPROVED BY THE COUNTY ENGINEER.
15. NO PAVING CONSTRUCTION SHALL BE STARTED UNTIL ALL UTILITY LINES ARE COMPLETED & APPROVED UNDER THIS PROPOSED PAVED AREA.
16. BASE COURSE SHALL NOT BE PLACED UNDER SUBGRADE HAS BEEN APPROVED BY THE COUNTY ENGINEER.
17. NO JOB SHALL BE CONSIDERED COMPLETED UNTIL CURBS, PAVEMENTS AND SIDEWALKS ARE PLACED IN THE FORMATION OF ALL DIRT AND DEBRIS, AND SURVEY MONUMENTS ARE INSTALLED.
18. THE LOCATION OF ALL WATER VALVES, FIRE HYDRANTS, AND MANHOLES MUST AT ALL TIMES DURING CONSTRUCTION BE RESERVED BY THE CONTRACTOR AND MADE AVAILABLE TO THE COUNTY.
19. UTILITY FACILITIES, SHOWN OR NOT SHOWN IN CONFLICT WITH THIS WORK SHALL BE RELOCATED BY THE GENERAL CONTRACTOR AS REQUIRED. THIS ACTIVITY SHALL BE COORDINATED WITH THE OWNER OF THE UTILITY TO PREVENT ANY UNNECESSARY INTERRUPTION OF SERVICE.
20. ALL FITTINGS AND VALVES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL VALVES ARE TO BE PLUMB AND HAVE STRAIGHT ALIGNMENT.
21. ALL TAPPING SLEEVES, VALVES AND VALVE BOXES ON WATERLINES SHALL MEET THE REQUIREMENTS OF M.A.G. SPECIFICATIONS SECTION 630, AND M.A.G. STANDARD DETAIL NO. 340.
22. WATER METER COVERS SHALL MEET THE REQUIREMENTS OF M.A.G. STANDARD DETAIL NO. 310, AND WATER METER BOXES SHALL MEET THE REQUIREMENTS OF M.A.G. STANDARD DETAIL NO. 520.
23. ALL UTILITY FACILITIES SHALL BE TESTED FOR LEAKAGE AS PER M.A.G. STANDARD SECTION 611.45.
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MATCHLINE STA. 87+50



KEYMAP

LEGEND

120 LOT NUMBER
 RIGHT OF WAY
 SUBDIVISION/UNIT BOUNDARY
 STREET LIGHT (100W HPS)
R NO. 3-1/2" PULL BOX
S SERVICE PEDESTAL
P.U.E.
C.F. PUBLIC UTILITY EASEMENT
 COMMON ELEMENT

WATER MAIN
3/4" WATER METER
W/ 1" COPPER WATER LATERAL
FIRE HYDRANT ASSEMBLY
TEE W/VALVE
2" BLOWOFF ASSEMBLY
GATE VALVE OR BUTTERFLY VALVE
11 1/4", 22 1/2", 45°, 90° BEND

(4) SANITARY SEWER MANHOLE
SANITARY SEWER MAIN
(5) 4" PVC SEWER LATERAL
OFF-SITE SANITARY SEWER MANHOLE
SEE PHASE A IMPROVEMENT PLANS BY
OFF-SITE SANITARY SEWER MAIN
SEE PHASE A IMPROVEMENT PLANS BY
OFF-SITE 4" PVC SEWER LATERAL
SEE PHASE A IMPROVEMENT PLANS BY
E STUB AND CAP
SEWER BACK WATER VALVE

● STORM DRAIN MANHOLE
□ STORM DRAIN INLET

CLASS OF BEARINGS

- ## SEWER CONSTRUCTION NOTES

**[1] INSTALL 48" DIAMETER MANHOLE PER
M.A.G. STANDARD DETAIL, NO. 420**

[2] INSTALL 8" PVC SEWER MAIN

**[3] INSTALL 4" PVC SEWER LATERAL: PER
M.A.G. STANDARD DETAIL NOS. 440-1 AND 440-2**

WATER CONSERVATION NOTES

- 1. INSTALL 24" C900 PVC WATER LINE**

2. INSTALL 24" BUTTERFLY VALVE

3. INSTALL 24" X 24" X 24" TEE

4. INSTALL 24" X 24" X 6" TEE

5. INSTALL 24" X 24" X 6" TEE

6. INSTALL 24" X 24" X 6" X 6" CROSS

7. INSTALL 6" CAP WITH BLOW-OFF PER M.A.G. STD. DTL. NO. 390

8. INSTALL 24" 45° BEND

9. INSTALL 24" 22.5° BEND

10. INSTALL 6" C900 PVC WATER LINE

11. INSTALL 6" GATE VALVE

12. INSTALL 6" CAP WITH BLOW-OFF PER M.A.G. STD. DTL. NO. 390

13. INSTALL 6" 22.5° BEND

14. INSTALL 6" C900 PVC WATER LINE

15. INSTALL 6" GATE VALVE

16. INSTALL 6" CAP WITH BLOW-OFF PER M.A.G. STD. DTL. NO. 390

17. INSTALL FIRE HYDRANT ASSEMBLY PER M.A.G. STD. DTL. NO. 360

18. INSTALL 2" COPPER WATER LATERAL W/ BOX FOR FUTURE 2" WATER METER PER CITY OF KIMKAN DTL. NO. 344

19. INSTALL (2) 4" PVC IRRIGATION SLEEVES AND (1) 6" IRRIGATION SLEEVE

20. INSTALL 12" C900 PVC WATER LINE

21. INSTALL 12" 45° BEND

NOTE: ALL NOTES NOT USED ON ALL SHEETS.

STORM DRAIN CONSTRUCTION NOTES

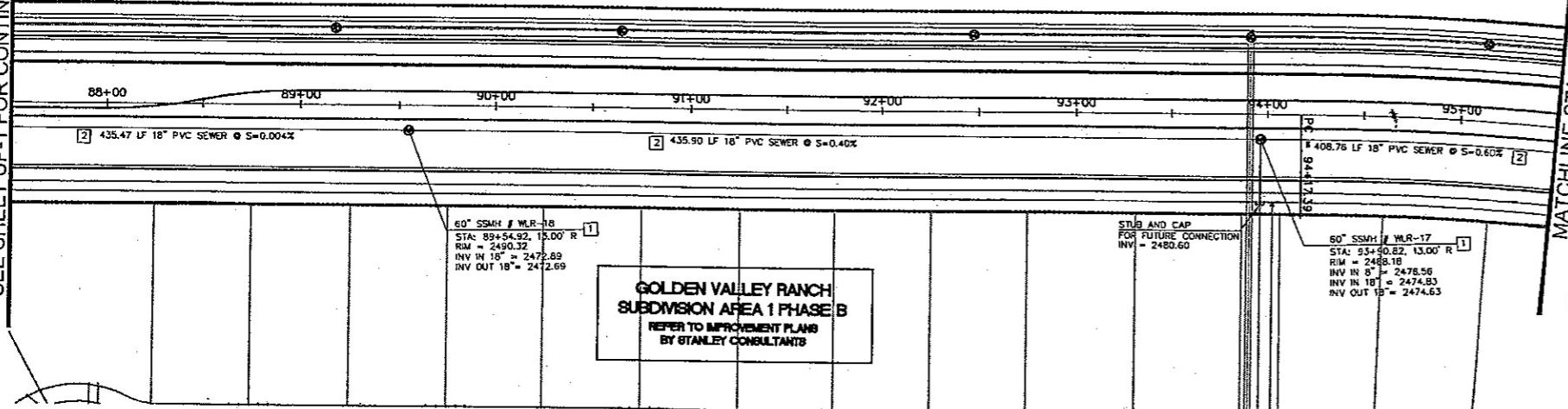
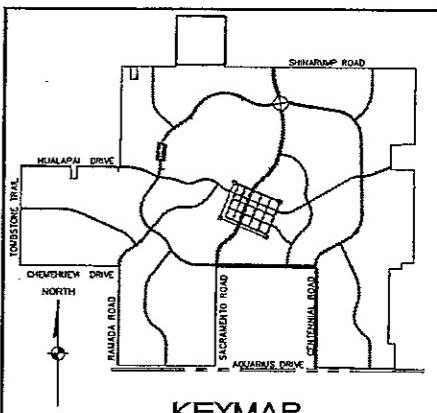
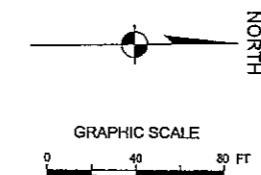
- ① INSTALL 48" DIAMETER SD MANHOLE PER M.A.G. STANDARD DETAIL NO. 520 & 522
 - ⑤ INSTALL 18" RCP STORM DRAIN
 - ⑤ INSTALL 24" RCP STORM DRAIN
 - ⑤ INSTALL 27" RCP STORM DRAIN
 - ⑤ INSTALL 30" RCP STORM DRAIN
 - ⑤ INSTALL 42" RCP STORM DRAIN
 - ⑤ INSTALL 48" RCP STORM DRAIN
 - ⑤ INSTALL 54" RCP STORM DRAIN
 - ⑨ INSTALL MOD. TYPE "C" STORM DRAIN INLET
SEE DETAIL ON SHEET D12 AND D17 FOR PROFILE
 - ⑩ CONSTRUCT STORM DRAIN CROSSING SEWER PER
DETAIL ON SHEET D14
 - ⑪ CONSTRUCT WATER AND SEWER CROSSING PER
M.A.G. STANDARD DETAIL NO. 381 WITH MINIMUM
2' VERTICAL SEPARATION WITH C.L.W.I. 10 FEET
HORizontally EACH WAY.

教材二十一世纪文库·新系

RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH
LOOP ROAD SECTION 2 IMPROVED
PLAN AND PROFILE - STA. 78+50
DRAFT

Stanley Consultants INC.

SHEET
UP-1
11 OF 43 SHEETS
SCI PROJECT,
18449.03.03

MATCHLINE STA. 87+50
SEE SHEET UP-1 FOR CONTINUATIONMATCHLINE STA. 95+50
SEE SHEET UP-3 FOR CONTINUATION**LEGEND**

| |
|---------------------------|
| 120 |
| LOT NUMBER |
| RIGHT OF WAY |
| SUBDIVISION/UNIT BOUNDARY |
| STREET LIGHT (100W HPS) |
| NO. 3-1/2" PULL BOX |
| SERVICE PEDESTAL |
| SERVICE UTILITY EASMENT |
| COMMON ELEMENT |

WATER

| |
|--|
| WATER MAIN |
| 3/4" WATER METER W/ 1" COPPER WATER LATERAL |
| FIRE HYDRANT ASSEMBLY |
| TEE W/ VALVE |
| 2" BLOWOFF ASSEMBLY |
| GATE VALVE OR BUTTERFLY VALVE |
| 11 1/4" 22 1/2", 45°, 90° BEND |

SEWER

| |
|--|
| SANITARY SEWER MANHOLE |
| 4" PVC SEWER LATERAL |
| OFF-SITE SANITARY SEWER MANHOLE SEE PHASE 1 IMPROVEMENT PLANS BY S.C.I. |
| OFF-SITE SANITARY SEWER MAN SEE PHASE 1 IMPROVEMENT PLANS BY S.C.I. |
| OFF-SITE 4" PVC SEWER LATERAL SEE PHASE 1 IMPROVEMENT PLANS BY S.C.I. |

E

| |
|------------------------|
| SEWER BACK WATER VALVE |
| STORM DRAIN MANHOLE |
| STORM DRAIN INLET |
| STORM DRAIN PIPE |

BASIS OF BEARINGS

NORTH 001°38' EAST - THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 02, TOWNSHIP 20 NORTH, RANGE 18 WEST, GLA & SALT RIVER MERIDIAN, MOHAVE COUNTY, ARIZONA, AS DETERMINED BY THE ARIZONA COORDINATE SYSTEM OF 1983 (AZ83-WF), WEST ZONE, INTERNATIONAL FOOT (FT), UTILIZING FAST STATIC OBSERVATIONS PROCESSED BY NGS-OPUS.

M.C.S.D. "SD 32" - LATITUDE 35°07'22.70034" N,
LONGITUDE 114°09'21.57240" W (NAD '83)
HEIGHT 2562.46391 ft (NAVD '88)

STONE 1/4 COR 3/2 - LATITUDE 35°08'33.33385" N,
LONGITUDE 114°10'30.72281" W (NAD '83)
HEIGHT 2498.20456 ft (NAVD '88)

BENCHMARK

BENCHMARK # "SD 34" M.C.S.D.
ELEVATION - 2590.24273 ft (NAVD '88)

DESCRIPTION: ALUM CAP 2" DIA. SET IN CONC. 65 FT. NORTHEAST OF
THE SOUTH 1/4 CORNER OF SEC. 35, T. 21 N., R. 18 W. AND THE
INTERSECTION OF SHARARP RD. AND HOPE RD., STAMPED "SD 34 1999
RLS 10343."

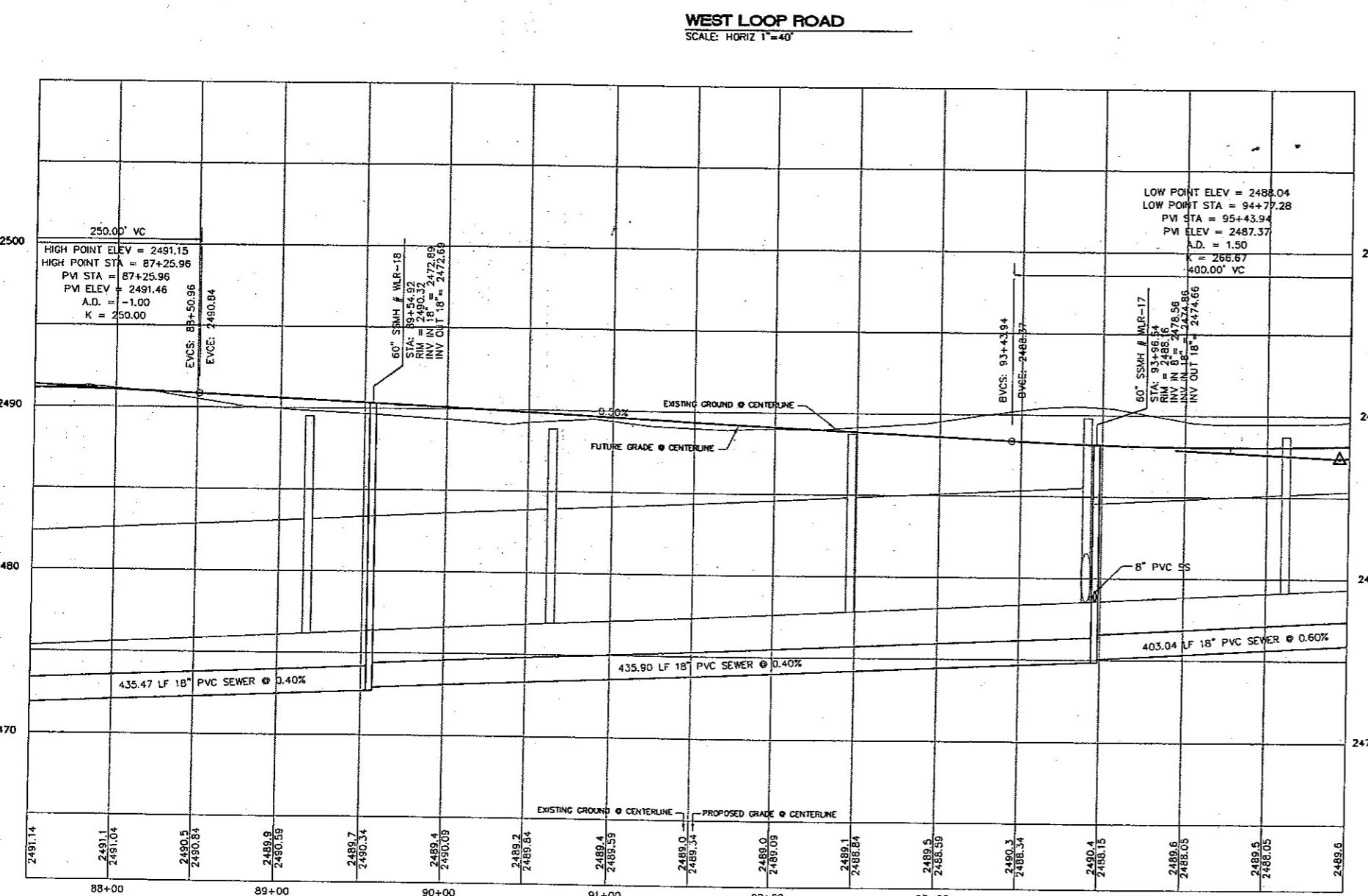
DISCLAIMER NOTE

UTILITY LOCATIONS SHOWN
HEREON ARE APPROXIMATE
ONLY. IT SHALL BE THE
CONTRACTOR'S RESPONSIBILITY
TO DETERMINE THE EXACT
LOCATION AND ACTUAL
LOCATION OF ALL EXISTING
UNDERGROUND OR OVER-
HEAD UTILITIES PRIOR TO
COMMENCING CONSTRUCTION.
NO REPRESENTATION IS MADE
THAT ALL EXISTING UTILITIES
ARE SHOWN ON THIS PLAN.
THE OWNER ASSUMES NO
RESPONSIBILITY FOR UTILITIES
NOT SHOWN OR UTILITIES
NOT SHOWN IN THEIR PROPER
LOCATION.



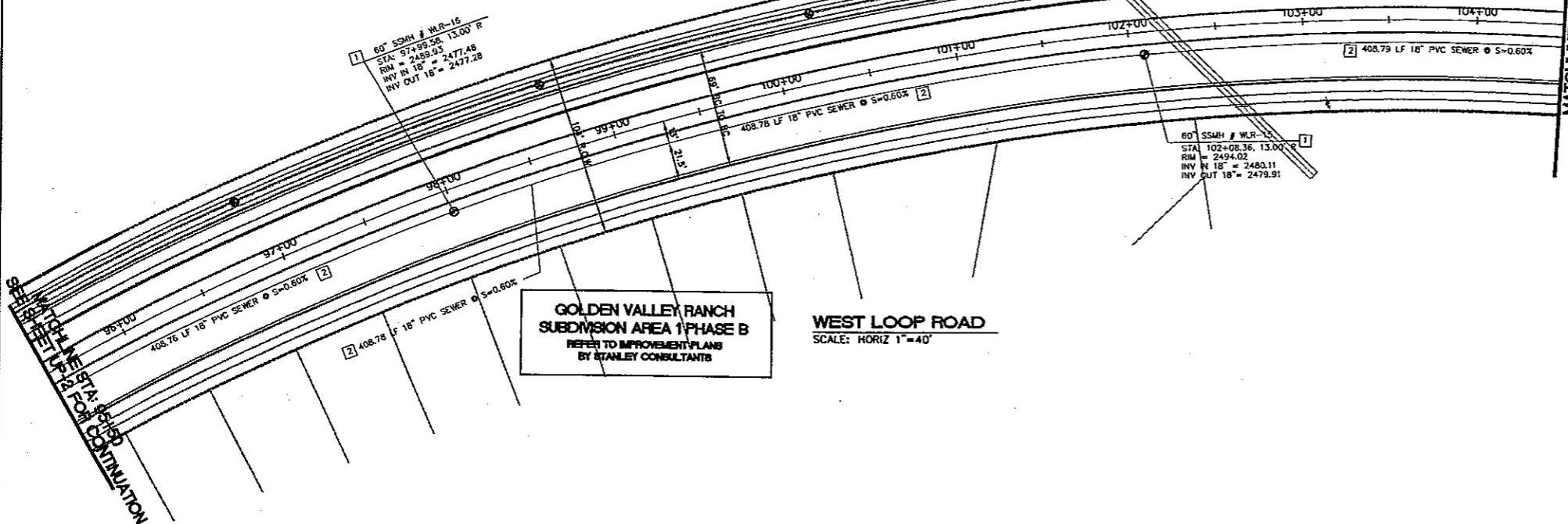
RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH
WEST LOOP ROAD SECTION 2 IMPROVEMENTS
UTILITY PLAN AND PROFILE - STA. 87+50 - 95+50
MOHAVE COUNTY

UP-2
SHEET
11 OF 43 SHEETS
PRELIMINARY ISSUE FOR REVIEW
NOT FOR CONSTRUCTION 7-24-06
SCI PROJECT # 18449.03.03

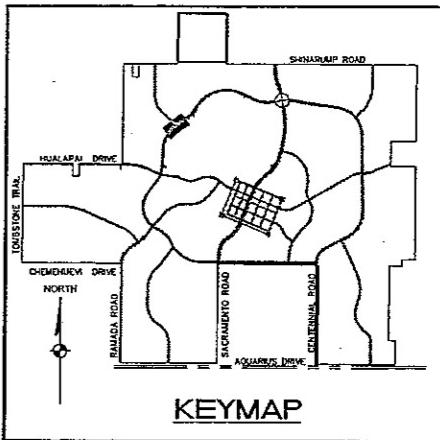
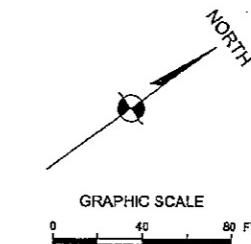


5820 S. Eastern Avenue, Suite 200
Las Vegas, Nevada 89119
(702) 368-0345 Fax (702) 368-9293
www.stanleygroup.com





MATCHLINE STA 104+50
SEE SHEET UP-4 FOR CONTINUATION



KEYMAP

LEGEND

| | |
|-----|---------------------------|
| 120 | LOT NUMBER |
| — | RIGHT OF WAY |
| — | SUBDIVISION/UNIT BOUNDARY |
| — | STREET LIGHT (100W HPS) |
| — | NO. 3-1/2" PULL BOX |
| — | SERVICE PEDESTAL |
| — | PUBLIC UTILITY EASEMENT |
| — | COMMON ELEMENT |

WATER

| | |
|---|---|
| — | WATER MAIN |
| — | 3/4" WATER METER W/ 1" COPPER WATER LATERAL |
| — | FIRE HYDRANT ASSEMBLY |
| — | TEE W/ VALVE |
| — | 2" BLOW OFF ASSEMBLY |
| — | GATE VALVE OR BUTTERFLY VALVE |
| — | 11 1/4", 21 1/2", 45°, 90° BEND |

SEWER

| | |
|---|---|
| — | SANITARY SEWER MANHOLE |
| — | SANITARY SEWER MAIN |
| — | 4" PVC SEWER LATERAL |
| — | OFF-SITE SANITARY SEWER MANHOLE SEE PHASE 1 IMPROVEMENT PLANS BY S.C.L. |
| — | OFF-SITE SANITARY SEWER MAIN SEE PHASE 1 IMPROVEMENT PLANS BY S.C.L. |
| — | OFF-SITE 4" PVC SEWER LATERAL SEE PHASE 1 IMPROVEMENT PLANS BY S.C.L. |
| — | STUB AND CAP |
| — | SEWER BACK WATER VALVE |

STORM DRAIN

| | |
|---|---------------------|
| — | STORM DRAIN MANHOLE |
| — | STORM DRAIN INLET |
| — | STORM DRAIN PIPE |

BASIS OF BEARINGS

NORTH 001°33'38" EAST - THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 02, TOWNSHIP 20 NORTH, RANGE 18 WEST, CLA & SALT RIVER MERIDIAN, MOHAVE COUNTY, ARIZONA, AS DETERMINED BY THE ARIZONA COORDINATE SYSTEM OF 1983 (AZ83-WF), WEST ZONE, INTERATIONAL FOOT (FT), UTILIZING FAST STATIC OBSERVATIONS PROCESSED BY NGS-OPUS.

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BENCHMARK # SD 34" M.C.S.D.

DESCRIPTION: ALUM CAP 2" DIA, SET IN CONC. 65 FT. NORTHEAST OF THE SOUTH 1/4 CORNER OF SEC. 35, T. 21 N., R. 18 W. AND THE INTERSECTION OF SHINARUMP DR. AND HOPE RD., STAMPED "SD 34 1999 RLS 10343."

DISCLAIMER NOTE

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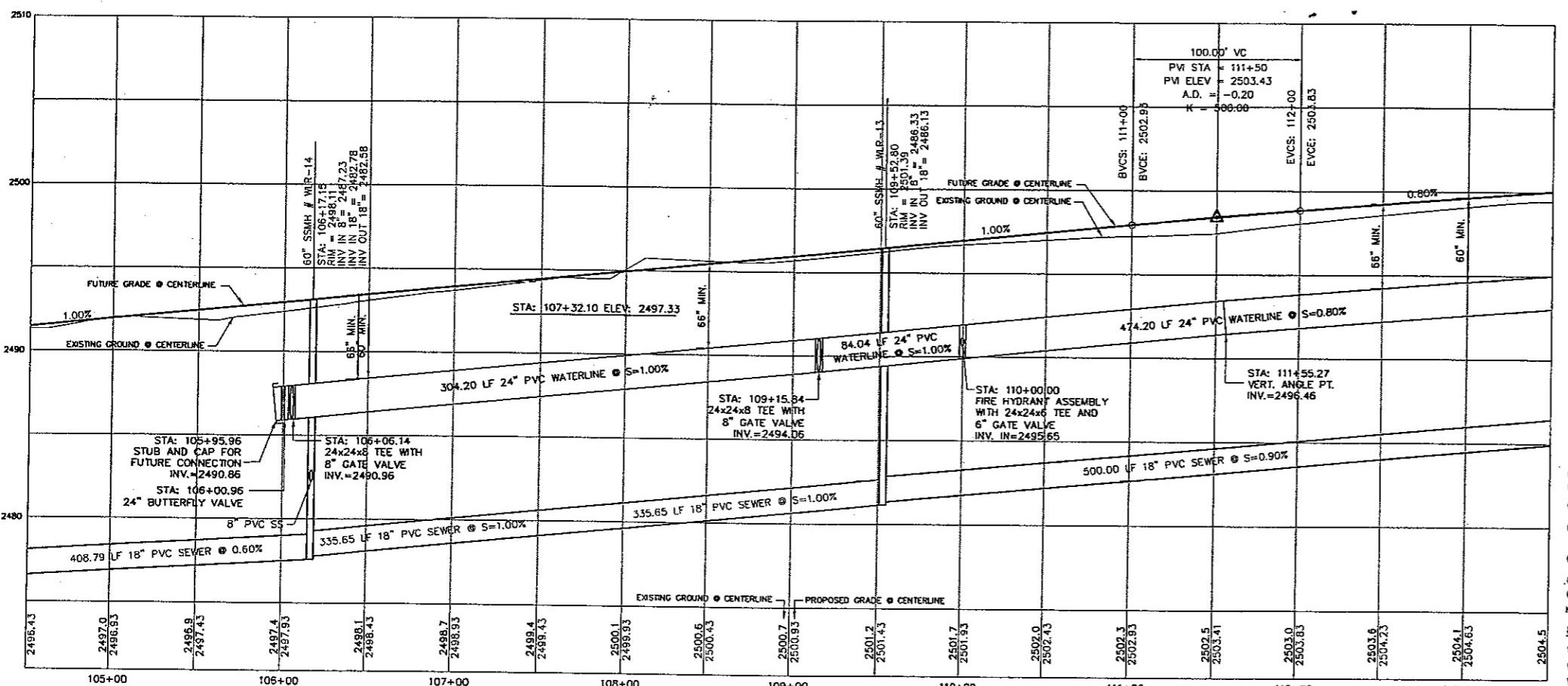
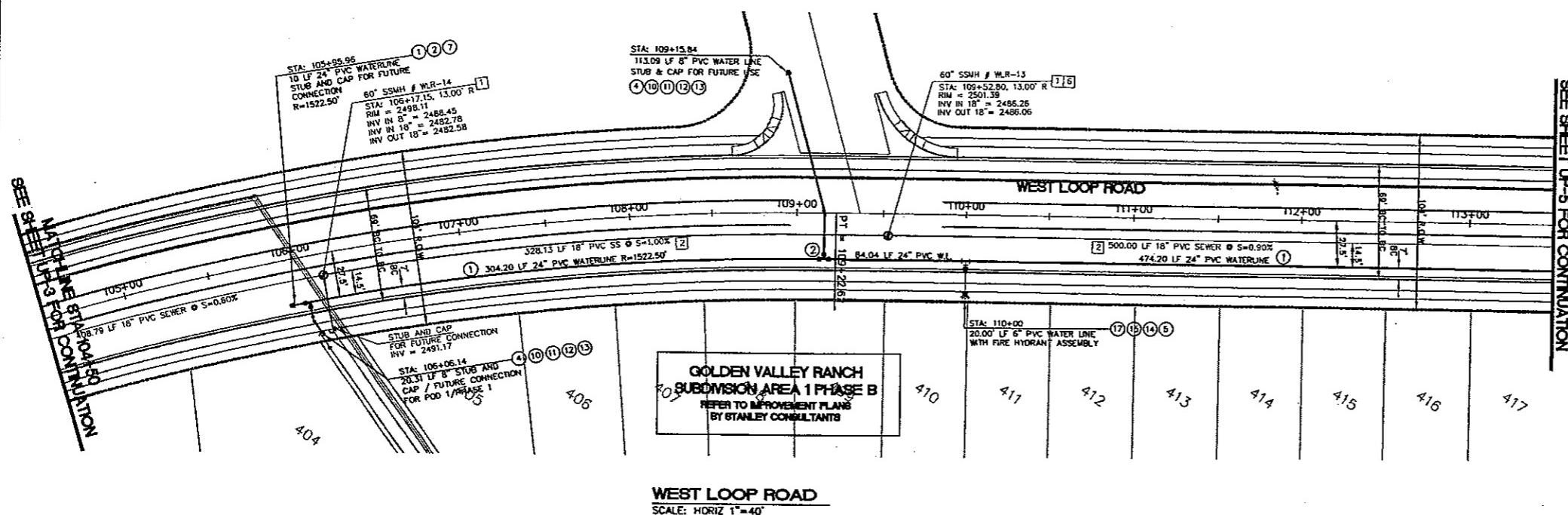
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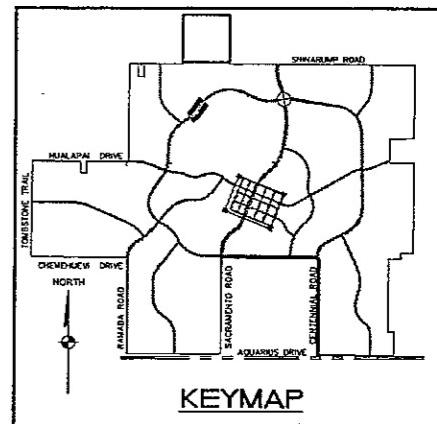
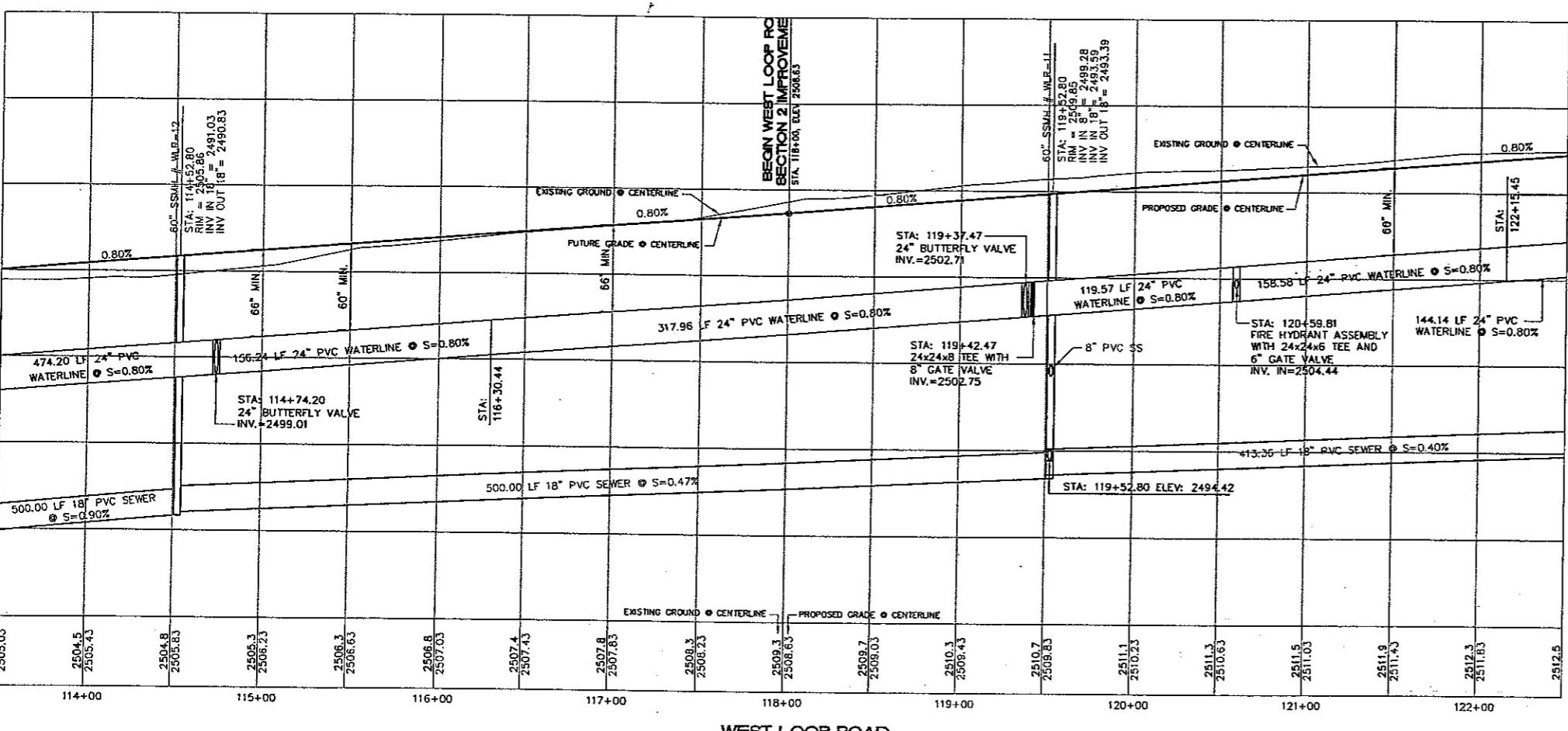
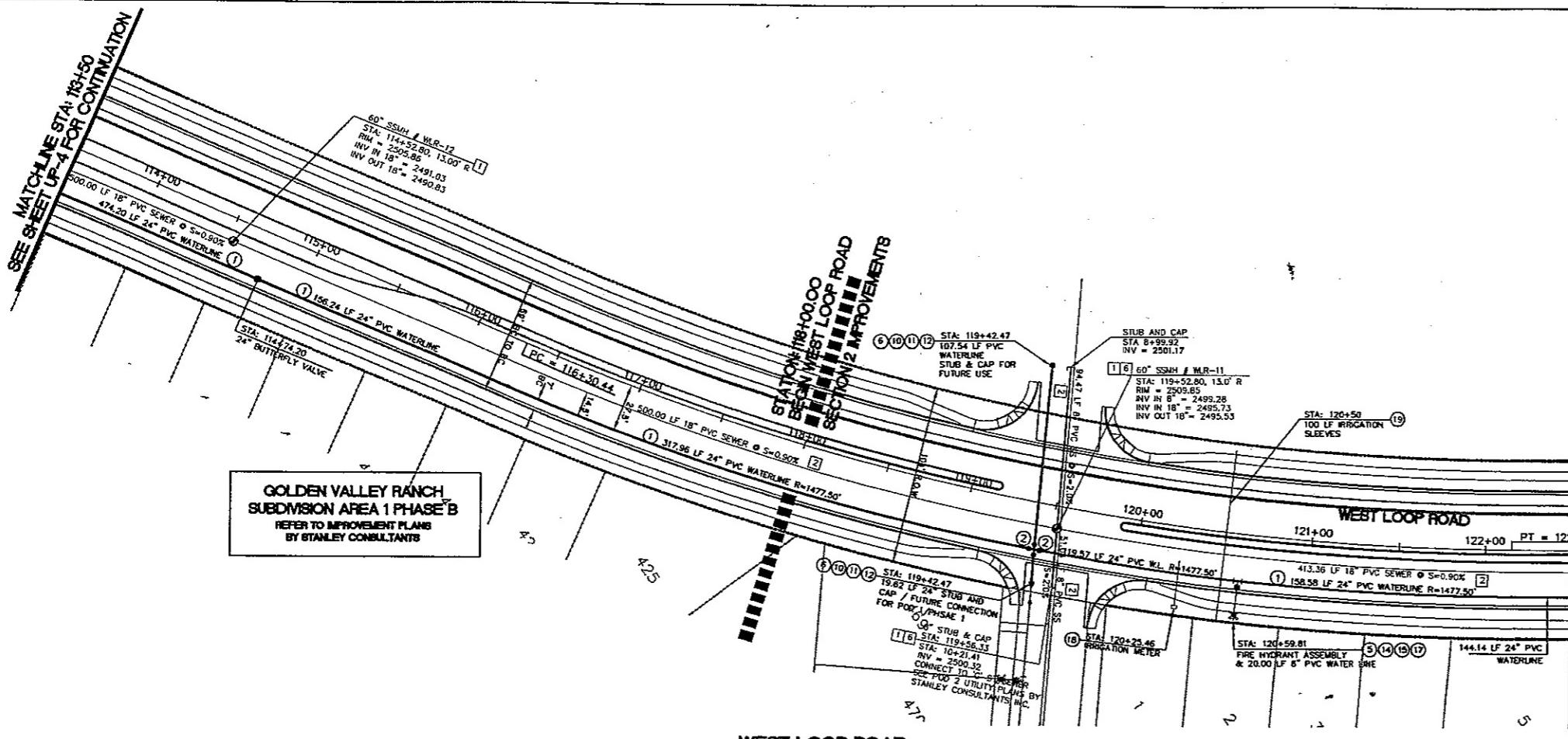
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| Stanley Consultants Inc. | 5820 S. Eastern Avenue, Suite 200 LDS Village, Phoenix, AZ 85040 (602) 569-3356 Fax (602) 569-9793 www.stanleyinc.com |
| RHODES HOMES ARIZONA, LLC GOLDEN VALLEY RANCH | WEST LOOP ROAD SECTION 2 IMPROVEMENTS UTILITY PLAN AND PROFILE - STA. 104+50 ~ 113+50 ARIZONA MCNAME COUNTY |
| DISCLAIMER NOTE | Avoid cutting underground utility lines. Call before you dig. Call 1-800-782-5348 (1-800-782-5348) |
| STORM DRAIN CONSTRUCTION NOTES | Avoid trenching power line contact. Call before you overhead. Call 1-928-753-5591 (1-928-753-5591) |
| SHEET UP-4 | PRELIMINARY ISSUE FOR REVIEW NOT FOR CONSTRUCTION Z 74 OF SCI PROJECT# 18449.03.03 |



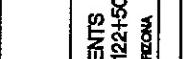
KENNETH T. YAMADA
PE, S.E.

| | |
|---|-----|
| LOT NUMBER | 120 |
| RIGHT OF WAY | |
| SUBDIVISION/UNIT BOUNDARY | |
| STREET LIGHT (10W HPS) | |
| NO. 3-1/2" PULL BOX | |
| SERVICE PEDESTAL | |
| PUBLIC UTILITY EASEMENT | |
| COMMON ELEMENT | |
| WATER MAIN | |
| 3/4" WATER METER | |
| W/ 1" COPPER WATER LATERAL | |
| FIRE HYDRANT ASSEMBLY | |
| EEW/W/VALVE | |
| 2" BLOWOFF ASSEMBLY | |
| GATE VALVE OR BUTTERFLY VALVE | |
| 11 1/4", 22 1/2", 45°, 90° BEND | |
| SANITARY SEWER MANHOLE | |
| SANITARY SEWER MAIN | |
| 4" PVC SEWER LATERAL | |
| OFF-SITE SANITARY SEWER MANHOLE | |
| SEE PHASE 1 IMPROVEMENT PLANS BY S.C.I. | |
| OFF-SITE SANITARY SEWER MAIN | |
| SEE PHASE 1 IMPROVEMENT PLANS BY S.C.I. | |
| OFF-SITE 4" PVC SEWER LATERAL | |
| SEE PHASE 1 IMPROVEMENT PLANS BY S.C.I. | |
| STUB AND CAP | |
| SEWER BACK WATER VALVE | |
| STORM DRAIN MANHOLE | |
| STORM DRAIN INLET | |
| STORM DRAIN PIPE | |

SCALE (H) 1°=40'
SCALE (V) 1°=4'
DRAWN BY VND
CHECKED BY MPB
DATE 8/30/05



5820 S. Eastern Avenue Suite # 200
Las Vegas, Nevada 89119
(702) 389-2356 Fax (702) 345-9793
www.albertgroup.com

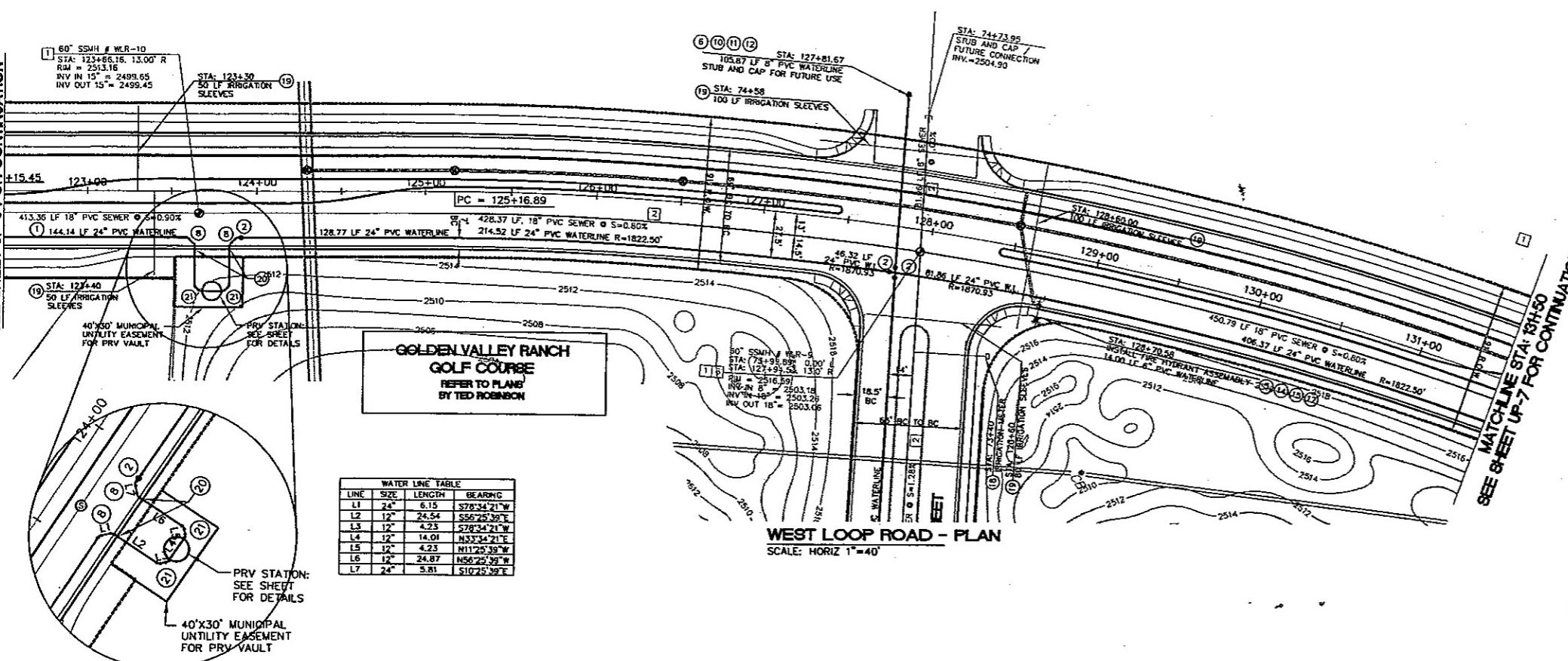


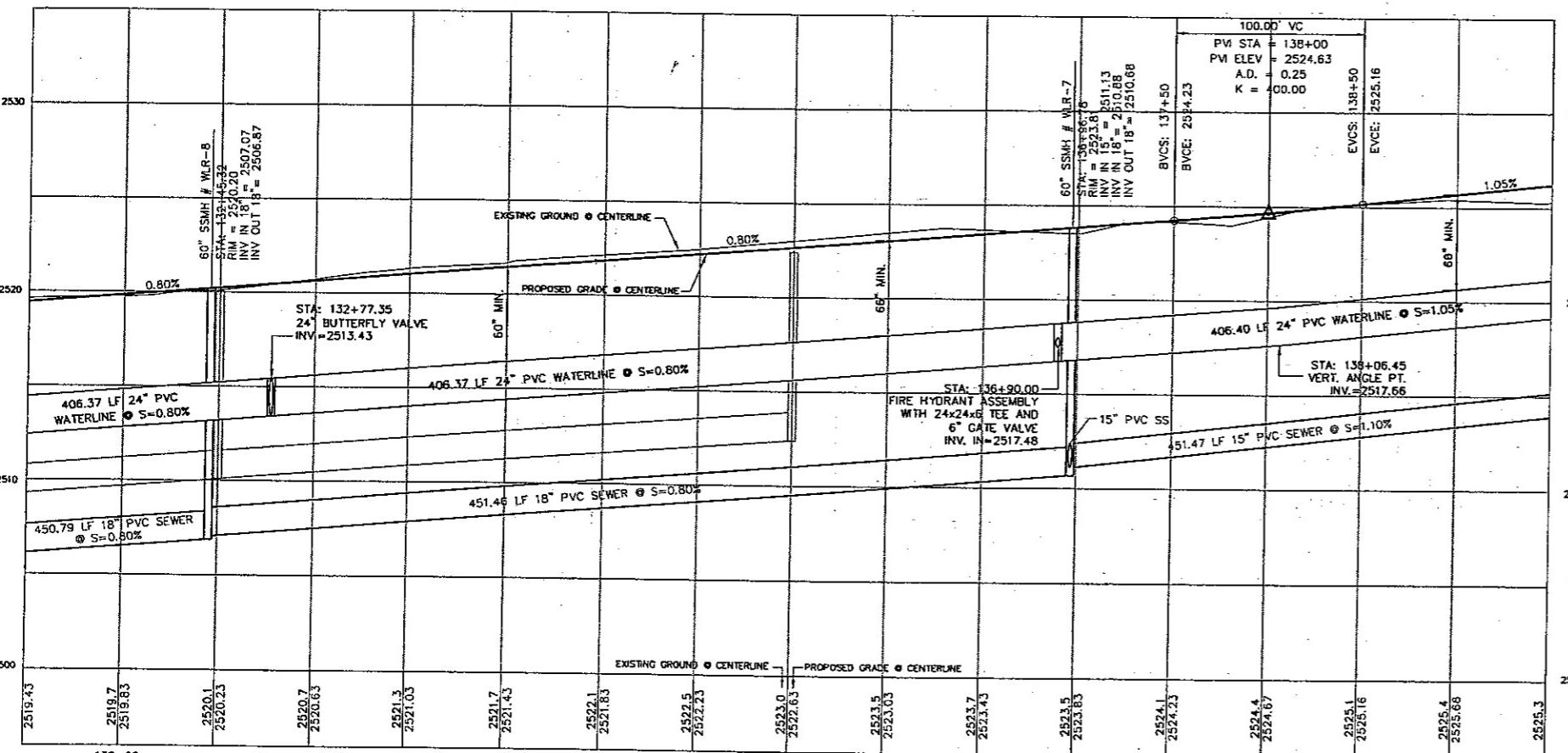
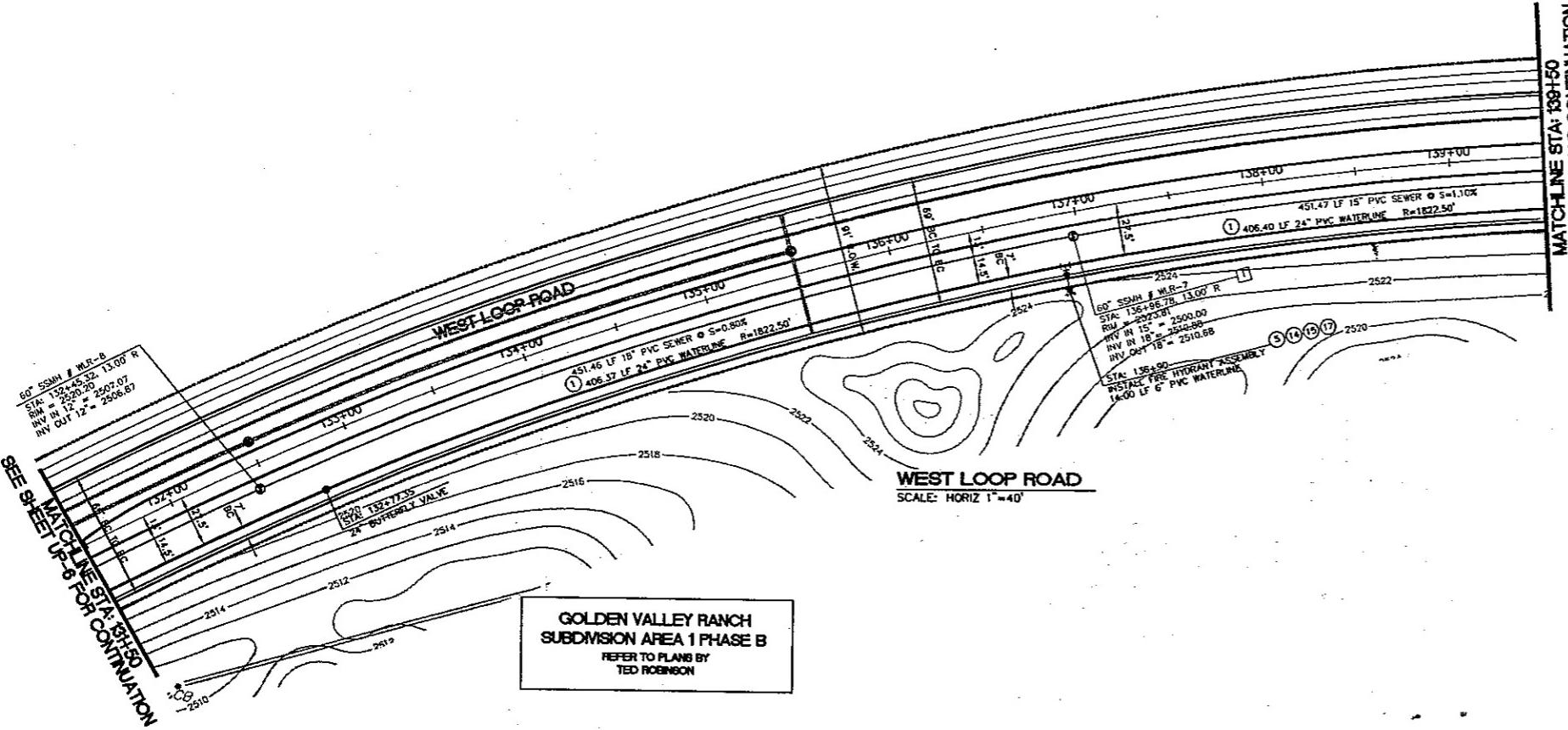
WEST LOOP ROAD SECTION 2 IMPROVEMENTS
UTILITY PLAN AND PROFILE - STA. 13+50 - 122+50
ARIZONA
MOHAVE COUNTY

UP-5
13 OF 43 SHEETS

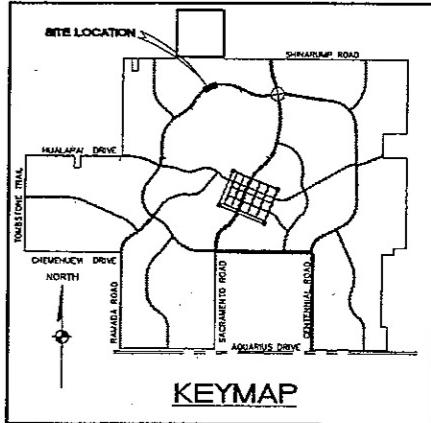
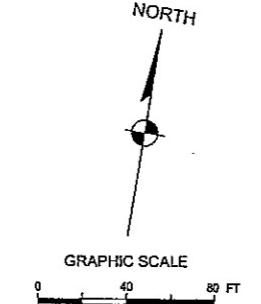
SCI PROJECT #
18449.03.03

PRELIMINARY ISSUE FOR REVIEW
NOT FOR CONSTRUCTION 7-31-06

MATCHLINE STA:122+50
SEE SHEET UP-5 FOR CONTINUATION



MATCH LINE STA 138+50 SEE SHEET UP-8 FOR CONTINUATION

**LEGEND**

| | |
|-----|---------------------------|
| 120 | LOT NUMBER |
| — | RIGHT OF WAY |
| — | SUBDIVISION/UNIT BOUNDARY |
| — | STREET LIGHT (ROW HPS) |
| ■ | NO. 3-1/2" PULL BOX |
| — | SERVICE PEDESTAL |
| — | PUBLIC UTILITY EASEMENT |
| — | COMMON ELEMENT |

WATER

| | |
|---|---------------------------------|
| — | WATER MAIN |
| — | 3/4" WATER METER |
| — | W/ 1" COPPER WATER LATERAL |
| — | FIRE HYDRANT ASSEMBLY |
| — | TEE W/ VALVE |
| — | Z" BLOWOFF ASSEMBLY |
| — | GATE VALVE OR BUTTERFLY VALVE |
| — | 11 1/4", 22 1/2", 45°, 90° BEND |

SEWER

| | |
|---|---|
| — | SANITARY SEWER MANHOLE |
| — | SANITARY SEWER MAIN |
| — | 4" PVC SEWER LATERAL |
| — | OFF-SITE SANITARY SEWER MANHOLE SEE PHASE 1 IMPROVEMENT PLANS BY S.C.I. |
| — | OFF-SITE SANITARY SEWER MAIN SEE PHASE 1 IMPROVEMENT PLANS BY S.C.I. |
| — | OFF-SITE 4" PVC SEWER LATERAL SEE PHASE 1 IMPROVEMENT PLANS BY S.C.I. |
| — | STUB AND CAP |

STORM DRAIN

| | |
|---|---------------------|
| — | STORM DRAIN MANHOLE |
| — | STORM DRAIN INLET |
| — | STORM DRAIN PIPE |

BASIS OF BEARINGS

NORTH DOT 138° EAST - THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 02, TOWNSHIP 20 NORTH, RANGE 18 WEST, DIA & SALT RIVER MERICAN, MOHAVE COUNTY, ARIZONA, AS DETERMINED BY THE ARIZONA COORDINATE SYSTEM OF 1983 (AZ83-WF), WEST ZONE, INTERNATIONAL FOOT (FT), UTILIZING FAST STATIC OBSERVATIONS PROCESSED BY NGS-OPUS.

M.C.S.D. "SD 32" - LATITUDE 35°09'22.70034"N, LONGITUDE 114°09'51.57240"W (NAVD '88)
HEIGHT 2562.46391ft (NAVD '88)

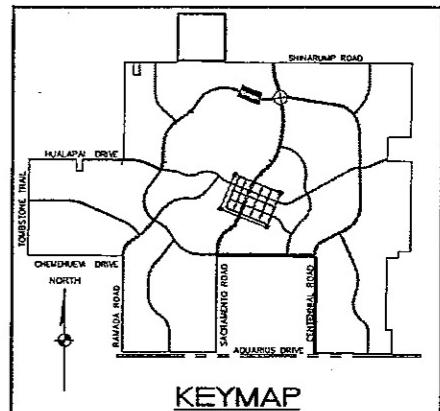
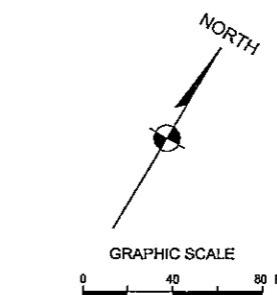
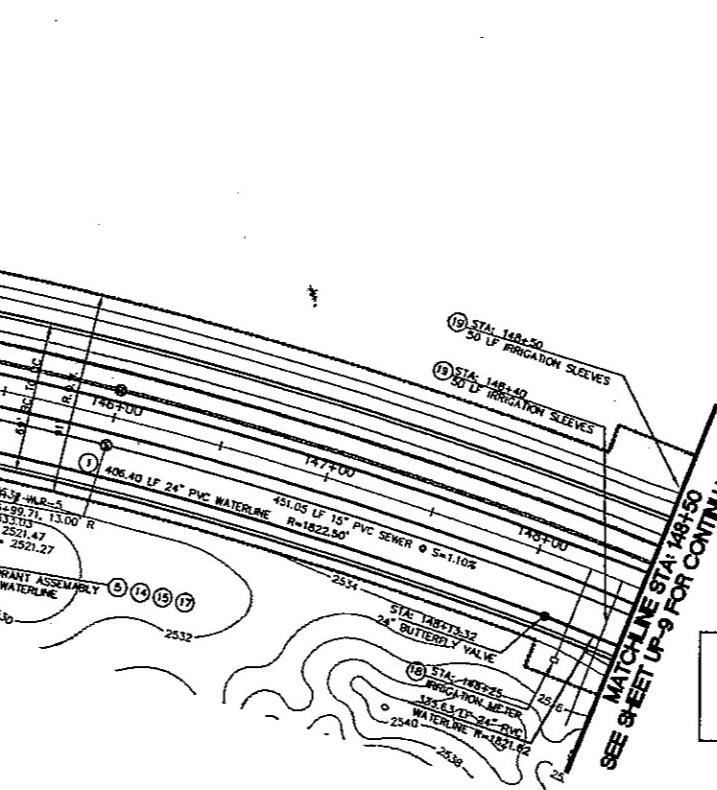
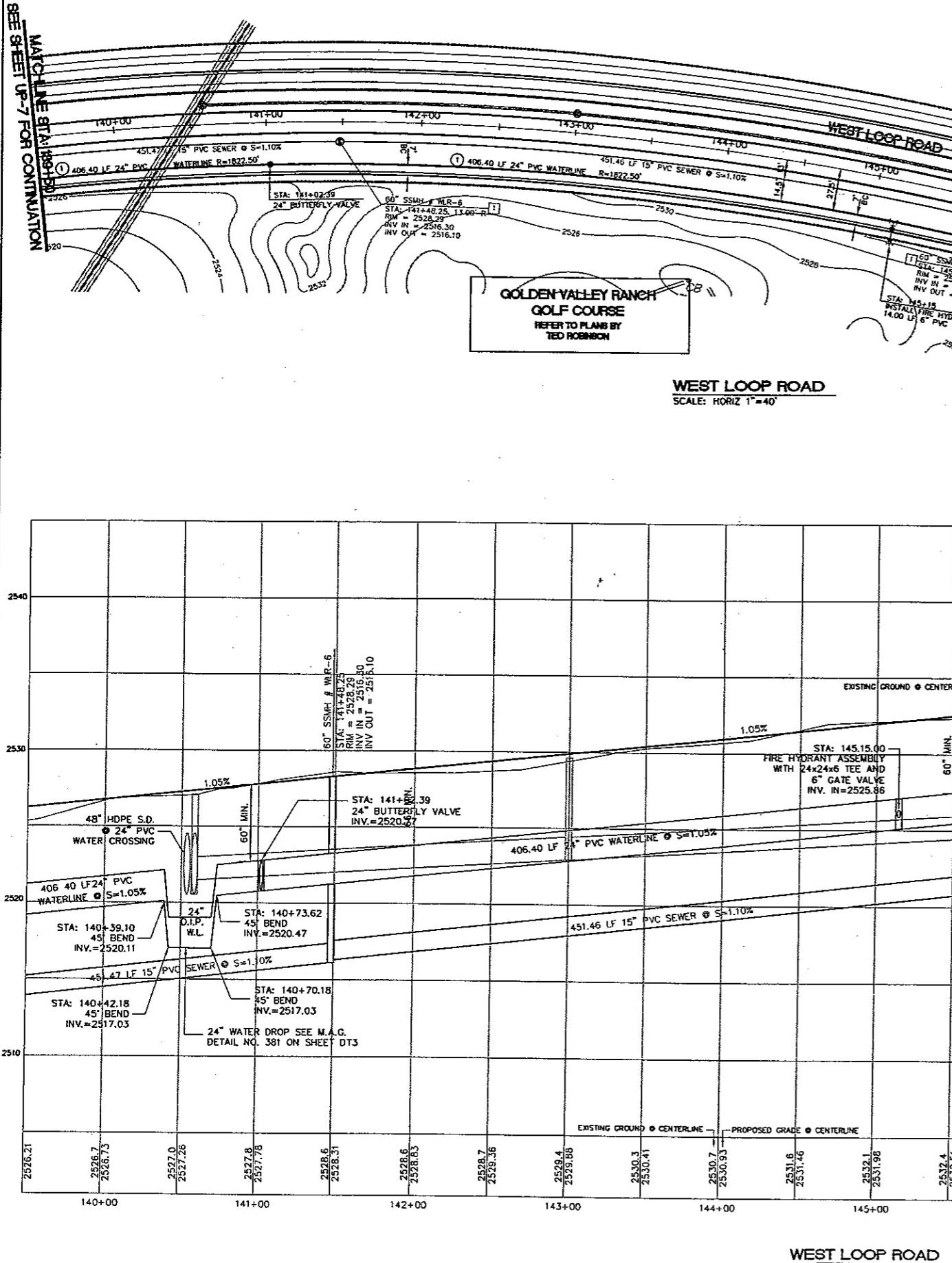
STONE 1/4 COR 3/2 - LATITUDE 35°08'53.53325"N, LONGITUDE 114°10'30.72281"W (NAVD '88)
HEIGHT 2458.20458ft (NAVD '88)

BENCHMARK

BENCHMARK # "SD 34" M.C.S.D.
ELEVATION - 2560.24273 FT (NAVD '88)

DESCRIPTION: ALUM CAP 2" DIA. SET IN CONC. 65 FT. NORTHEAST OF THE SOUTH 1/4 CORNER OF SEC. 35, T. 21 N., R. 18 W. AND THE INTERSECTION OF SHINARUMP DR. AND HOPE RD., STAMPED "SD 34 1999 RLS 10343".

DISCLAIMER NOTE**NOTES</b**

**LEGEND**

| | |
|-----|---------------------------|
| 120 | LOT NUMBER |
| — | RIGHT OF WAY |
| — | SUBDIVISION/UNIT BOUNDARY |
| — | STREET LIGHT (100W HPS) |
| □ | NO. 3-1/2" PULL BOX |
| ○ | SERVICE PEDESTAL |
| — | PUBLIC UTILITY EASEMENT |
| — | COMMON ELEMENT |

WATER

| | |
|--|------------|
| — | WATER MAIN |
| 3/4" WATER METER W/ 1" COPPER WATER LATERAL | |
| FIRE HYDRANT ASSEMBLY | |
| TEE W/ VALVE | |
| 2" BLOWOFF ASSEMBLY | |
| GATE VALVE OR BUTTERFLY VALVE | |
| 11 1/4", 22 1/2", 45°, 90° BEND | |

SEWER

| | |
|---|---|
| — | SANITARY SEWER MANHOLE |
| — | SANITARY SEWER MAIN |
| — | 4" PVC SEWER LATERAL |
| — | OFF-SITE SANITARY SEWER MANHOLE SEE PHASE 1 IMPROVEMENT PLANS BY S.C.I. |
| — | OFF-SITE SANITARY SEWER MAIN SEE PHASE 1 IMPROVEMENT PLANS BY S.C.I. |
| — | OFF-SITE 4" PVC SEWER LATERAL SEE PHASE 1 IMPROVEMENT PLANS BY S.C.I. |
| — | STUB AND CAP |
| — | SEWER BACK WATER VALVE |

E**DRW****STORM DRAIN**

| | |
|---|---------------------|
| — | STORM DRAIN MANHOLE |
| — | STORM DRAIN INLET |
| — | STORM DRAIN PIPE |

BASIS OF BEARINGS

NORTH 00°13'38" EAST - THE WEST LINE OF THE NORTHWEST QUARTER (NW 1/4) OF SECTION 02, TOWNSHIP 20 NORTH, RANGE 18 WEST, GILA & SALADO RIVER WATERSHED, GILA COUNTY, ARIZONA, AS DETERMINED BY THE ARIZONA COORDINATE SYSTEM OF 1983 (AZ83-MP), WEST ZONE, INTERPOLATED FOOT (FT), UTILIZING FAST STATIC OBSERVATIONS PROCESSED BY NGSC-OPUS

M.C.S.D. "SD 32" = LATITUDE 35°09'22.700347N,
LONGITUDE 114°09'21.57240W (NAVD '88)
HEIGHT 2562.46391ft (NAVD '88)

STONE 1/4 COR 3/2 = LATITUDE 35°08'55.53385N,
LONGITUDE 114°10'30.72281W (NAVD '88)
HEIGHT 2498.20458ft (NAVD '88)

BENCHMARK

BENCHMARK # "SD 34" M.C.S.D.
ELEVATION= 2590.24273 ft (NAVD '88)

DESCRIPTION: ALUM CAP 2" dia. SET IN CONC. 65 FT. NORTHEAST OF THE SOUTH 1/4 CORNER OF SEC. 35, T. 21 N., R. 18 W. AND THE INTERSECTION OF SHINARUP DR. AND HOPE RD., STAMPED "SD 34 1999 RLS 10343."

DISCLAIMER NOTE

NOTE: ALL NOTES NOT USED ON ALL SHEETS.

STORM DRAIN CONSTRUCTION NOTES

1. INSTALL 48" DIAMETER SD MANHOLE PER M.A.G.

STANDARD DETAIL NO. 520 & 522

2. INSTALL 18" RCP STORM DRAIN

3. INSTALL 24" RCP STORM DRAIN

4. INSTALL 27" RCP STORM DRAIN

5. INSTALL 30" RCP STORM DRAIN

6. INSTALL 42" RCP STORM DRAIN

7. INSTALL 48" RCP STORM DRAIN

8. INSTALL 54" RCP STORM DRAIN

9. INSTALL 100' TYPE 'C' STORM DRAIN INLET

SEE DETAIL ON SHEET DT2 AND DT7 FOR PROFILE

CONSTRUCT STORM DRAIN CROSSING SEWER PER

M.A.G. STANDARD DETAIL NO. 381 WITH MINIMUM

VERTICAL SEPARATION OF C.I.M.L. 10 FEET

HORIZONTALLY EACH WAY.

Avoid cutting underground utility lines, it's costly.
Call before you Dig!
LINE: 1-800-782-5348
(1-800-782-5348)

Avoid overhead power line contacts.
Call before you Overhead!
LINE: 1-928-753-5591



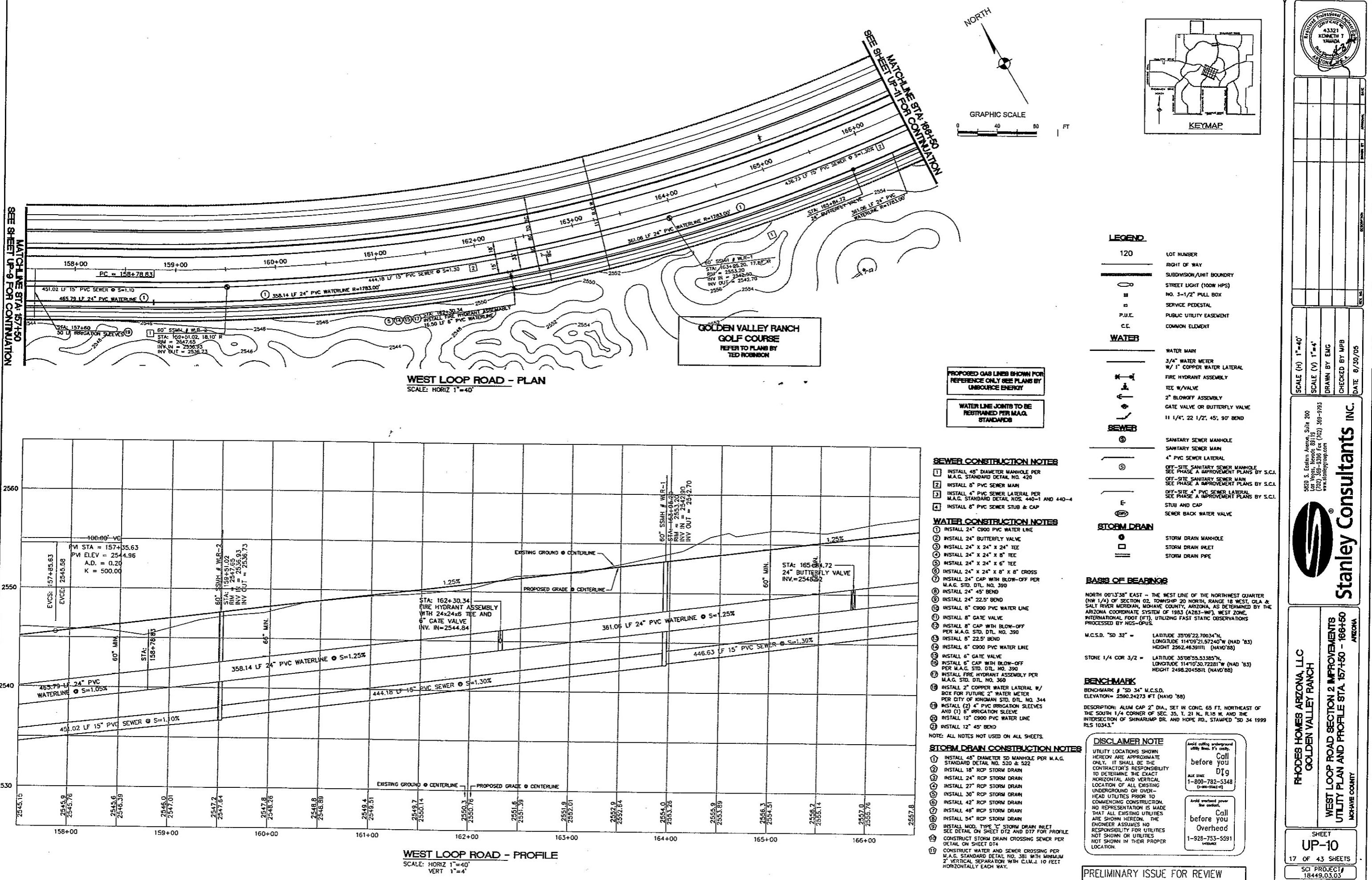
| | | | |
|----|----|----|-----|
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | 32 |
| 33 | 34 | 35 | 36 |
| 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 |
| 45 | 46 | 47 | 48 |
| 49 | 50 | 51 | 52 |
| 53 | 54 | 55 | 56 |
| 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 |
| 65 | 66 | 67 | 68 |
| 69 | 70 | 71 | 72 |
| 73 | 74 | 75 | 76 |
| 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 |
| 85 | 86 | 87 | 88 |
| 89 | 90 | 91 | 92 |
| 93 | 94 | 95 | 96 |
| 97 | 98 | 99 | 100 |

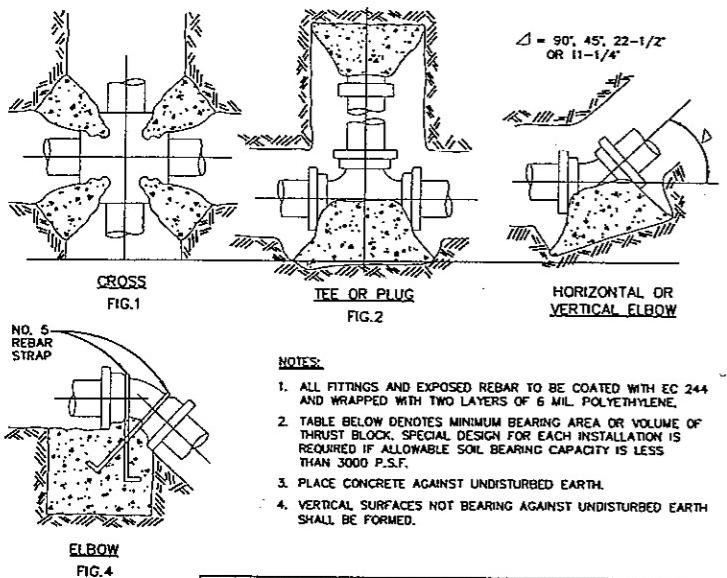
Stanley Consultants INC.
5820 S. Eastern Avenue, Suite 200
Lakewood, CO 80401-3505 USA (303) 555-9793
www.stanleyconsultants.com

RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH
WEST LOOP ROAD SECTION 2 IMPROVEMENTS
UTILITY PLAN AND PROFILE STA. 139+50 - 148+50
ARIZONA
MIGNE COUNTY

UP-8
SHEET
16 OF 43 SHEETS
SCI PROJECT# 18449.03.03

PRELIMINARY ISSUE FOR REVIEW
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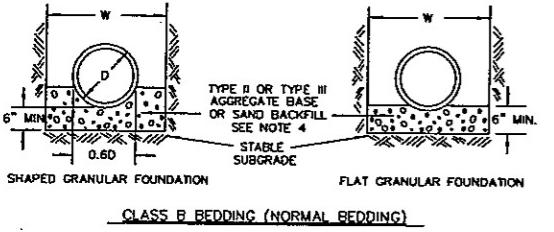


| SIZE OF PIPE | MINIMUM BEARING AREA IN SQUARE FEET/CUBIC YARDS OF CONCRETE | | | | | |
|--------------|---|--------|--------|--------|----------|----------|
| | FIG. 1 | FIG. 2 | FIG. 3 | FIG. 4 | 22'-1/2" | 11'-1/4" |
| 4" | 2 | 2 | 1 | 1 | 1.0 | .5 |
| 6" | 2 | 3 | 3 | 2 | 1.5 | .5 |
| 8" | 2 | 5 | 6 | 3 | 2.0 | .5 |
| 10" | 3 | 7 | 10 | 5 | 4.0 | 2.0 |
| 12" | 3 | 10 | 14 | 8 | 5 | 3 |
| 14" | 4 | 14 | 20 | 10 | 5 | 3 |
| 16" | 4 | 20 | 24 | 12 | 7 | 4 |
| 18" | 5 | 24 | 30 | 16 | 10 | 5 |
| 20" | 5 | 28 | 40 | 20 | 12 | 6 |

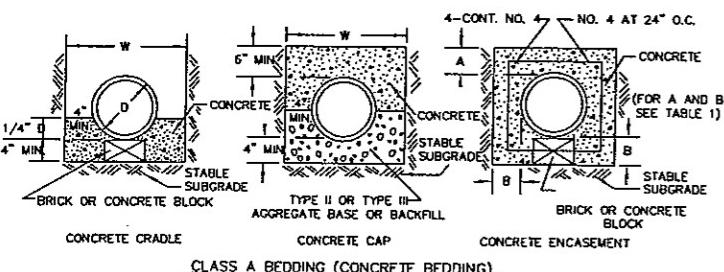
A THRUST BLOCK DETAILS

DT2

N.T.S.



CLASS B BEDDING (NORMAL BEDDING)



CLASS A BEDDING (CONCRETE BEDDING)

N.T.S.

DT2

NOTES:

1. FIRE HYDRANT INSTALLATION SHALL MEET THE REQUIREMENTS OF M.A.G. SPECIFICATIONS SECTION 756 AND M.A.G. STANDARD DETAILS NO. 360 AND 361.
2. VALVE BOX INSTALLATION SHALL MEET THE REQUIREMENTS OF M.A.G. SPECIFICATIONS SECTION 630 AND M.A.G. STANDARD DETAIL 270 AND 391.

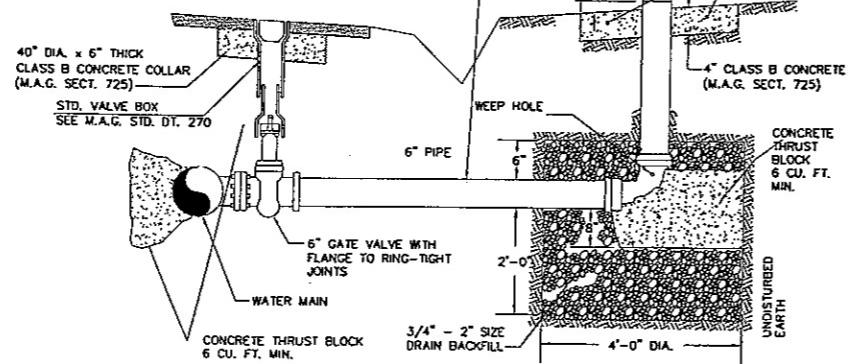
NOTES:

1. PIPE BEDDING TO BE COMPACTION TO AT LEAST 90% OF MAXIMUM DENSITY. SUBGRADE SHALL CONFORM TO RESPECTIVE ENTITY REQUIREMENTS.
 2. INDICATED THICKNESS OF BEDDING MATERIAL TO BE CONSTRUCTED UNDER THE BARREL SUBGRADE.
 3. OTHER BEDDING METHODS MAY BE SPECIFIED OR APPROVED.
 4. CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY.
- D = OUTSIDE DIAMETER OF PIPE
W = OUTSIDE DIAMETER OF PIPE + 24" MAXIMUM

B PIPE TRENCH BEDDING METHODS

N.T.S.

DT2

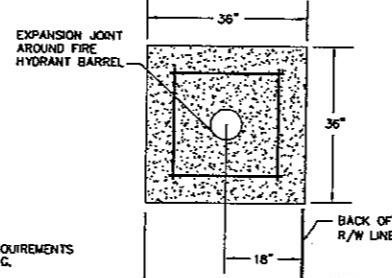


C TRENCH BACKFILL DETAIL

DT2

N.T.S.

NOTES:



FLEXIBLE COUPLING DETAIL - A-P12

NOT TO SCALE

DT2

F

NOTES:

1. PROVIDE TIE RODS WHERE FLEXIBLE COUPLING RESTRAINTS ARE SPECIFIED AND AT ALL OTHER LOCATIONS INDICATED ON THE DRAWINGS.
2. ORIENT AND SPACE TIE RODS AS REQUIRED TO EVENLY DISTRIBUTE PIPE PRESSURE.

DOUBLE MECHANICAL JOINT

| PIPE SIZE | TIE ROD DIA | NO. TIE RODS REQ'D | TIE BOLT DIA |
|-----------|-------------|--------------------|--------------|
| 8" | " | 2 | " |
| 10" | " | 4 | " |
| 12" | " | 4 | " |
| 14" | 1" | 4 | 1" |
| 16" | 1" | 4 | 1" |
| 18" | 1" | 6 | 1" |
| 24" | 1" | 10 | 1" |
| 36" | 1" | 20 | 1" |

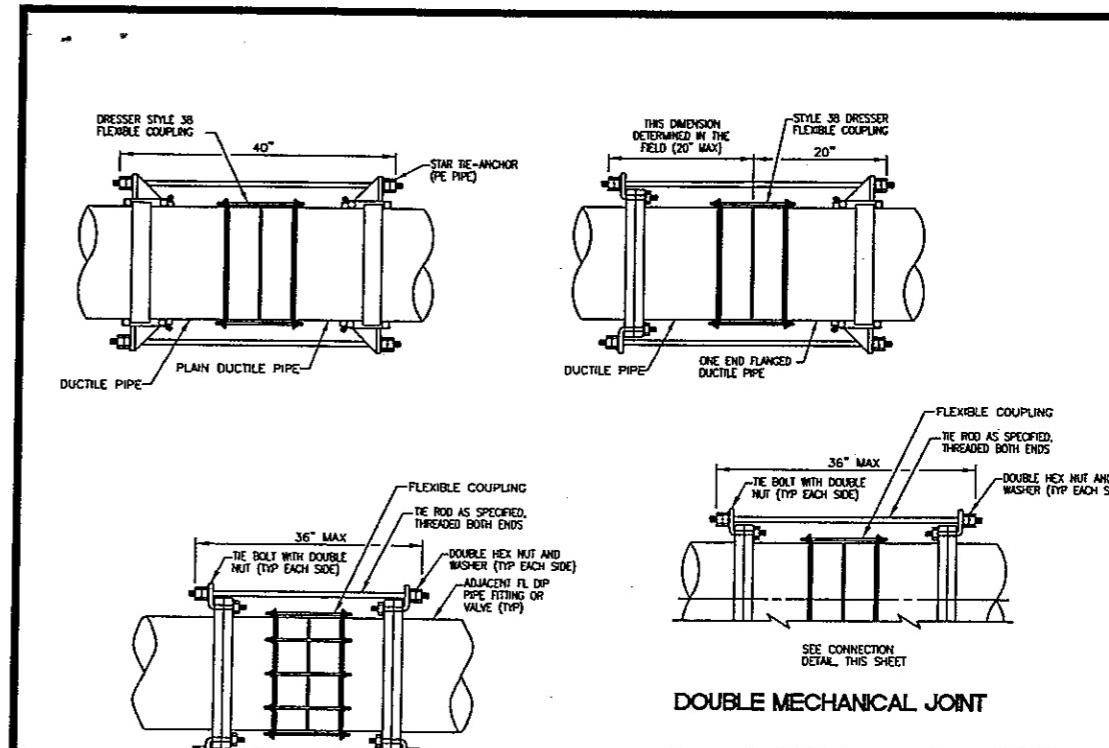
RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH
WEST LOOP ROAD SECTION 2 IMPROVEMENTS
DETAIL SHEET

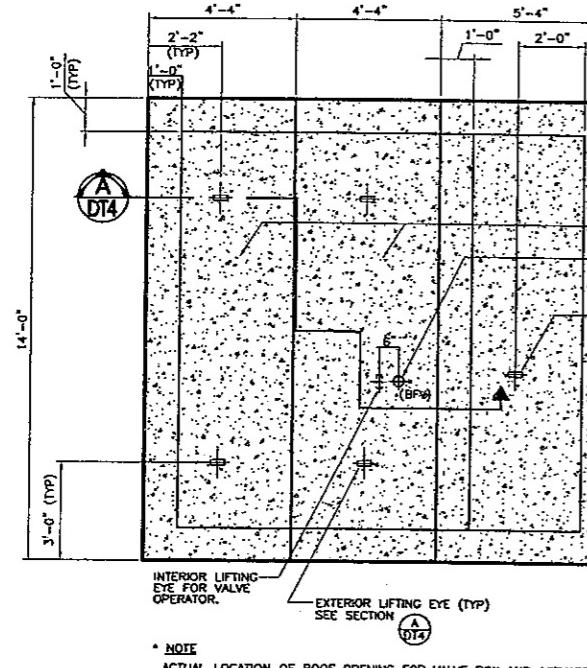
MICHAEL COUNTY
ARIZONA

Stanley Consultants Inc.
5820 S Eastern Avenue, Suite 200
Las Vegas, Nevada 89119
(702) 655-9356 fax (702) 655-9793
www.stanleygroup.com

SCALE (H) N.T.S.
SCALE (V) N.T.S.
DRAWN BY ENG
CHECKED BY MPB
DATE 3/31/06

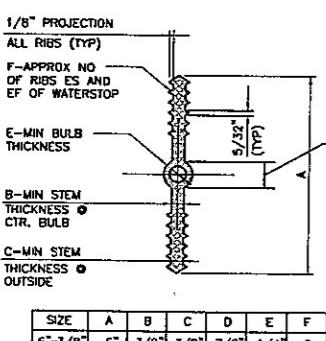
SHEET DT-1
38 OF 43 SHEETS
SCI PROJECT # 18449.03.03





VALVE VAULT ROOF PL.

NOT TO SCALE B101-3 011201 D



WALL OPENING - DIAGONAL REINFORCEMENT DETAIL

NOT TO SCALE

WATERSTOP DETAIL

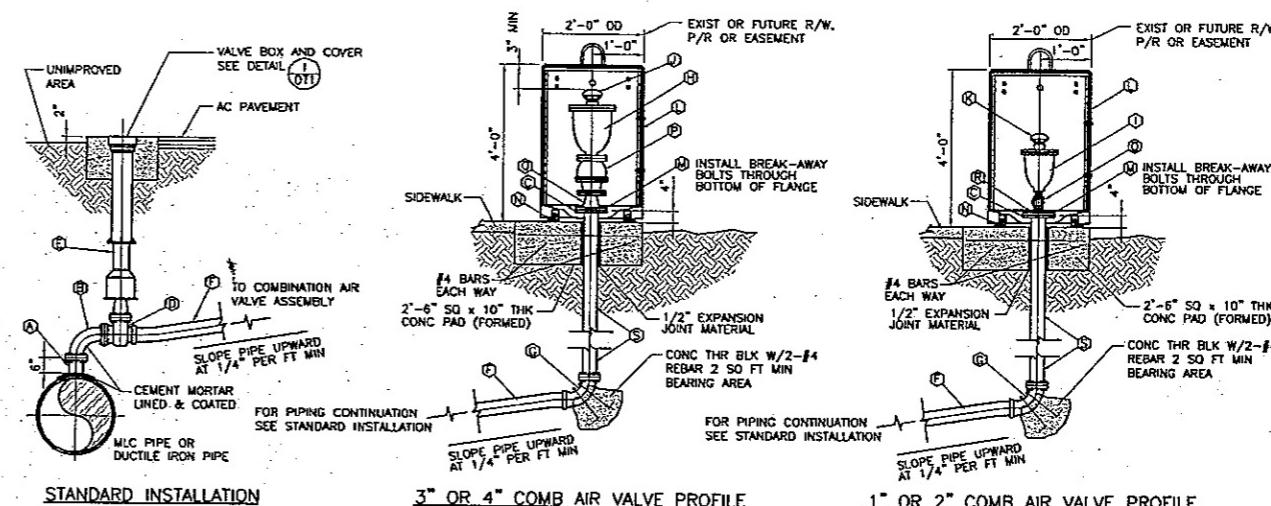
NOTE TO SCENE PAGE 3 181603 DT3

NOTES

1. CONCRETE FOR VAULT STRUCTURES SHALL BE 4000 PSI, UNLESS OTHERWISE SPECIFIED.
2. PIPE OUTLET SHALL BE SHAPED TO FIT THE SPECIFIED PIPE DIAMETER.
3. MAINTAIN A MIN CLEARANCE OF 2" OF COVER FOR REINFORCED STEEL, UNLESS OTHERWISE SPECIFIED.
4. BACKFILL UNITS OF VAULT EXCAVATION (INCLUDING BELOW VAULT FLOOR) WITH TYPE II AGGREGATE BASE, COMPACT TO 90% OF MAX DENSITY, UNLESS OTHERWISE SPECIFIED.

DETAIL NOTES

NOT TO SCALE P103-7 032801 RT



STANDARD INSTALLATION

15-OR-25 COMB AND KNIFE PROPERTY

LEGEND

- ⑧ 4" FLG STL OUTLET FOR MLC STLPIPE, FLG TEE FOR DIP

⑨ 4"- 90° FLG DUCTILE IRON BEND

⑩ 4" DUCTILE IRON FLANGE ADAPTOR

⑪ 4" FLG x PO OR PVC x MJ GATE VALVE W/2" OPERATING NUT

⑫ VALVE BOX AND COVER - SEE DETAIL  

⑬ 4" DUCTILE IRON PC350 PIPE OR 4" PVC CL150 DR18 PIPE

⑭ 4"- 90° FLG x PO OR FLG x MJ CI BEND

⑮ 3" OR 4" COMBINATION AIR VALVE, FLANGED INLET

⑯ 1" OR 2" COMBINATION AIR VALVE, THREADED INLET

⑰ 3" OR 4" MUSHROOM VENT CAP

⑲ 1" OR 2" MUSHROOM VENT CAP

⑳ 2'-0" OD x 4'-0" HIGH STEEL COVER

㉑ 5/8"-11NC BREAK-AWAY ZINC PLATED HEX HD BOLT, HEX NUT AND LOCKWASHER

㉒ 1/2"x 8" ANCHOR BOLT

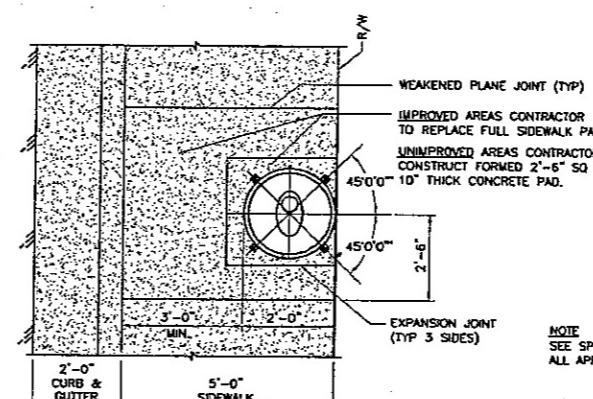
㉓ 1" OR 2" CARP STOP, THREADED BOTH ENDS

㉔ 3" OR 4" BALL VALVE - QUARTER TURN - FOR 3" OR 4" COMB AIR VALVE ASSY

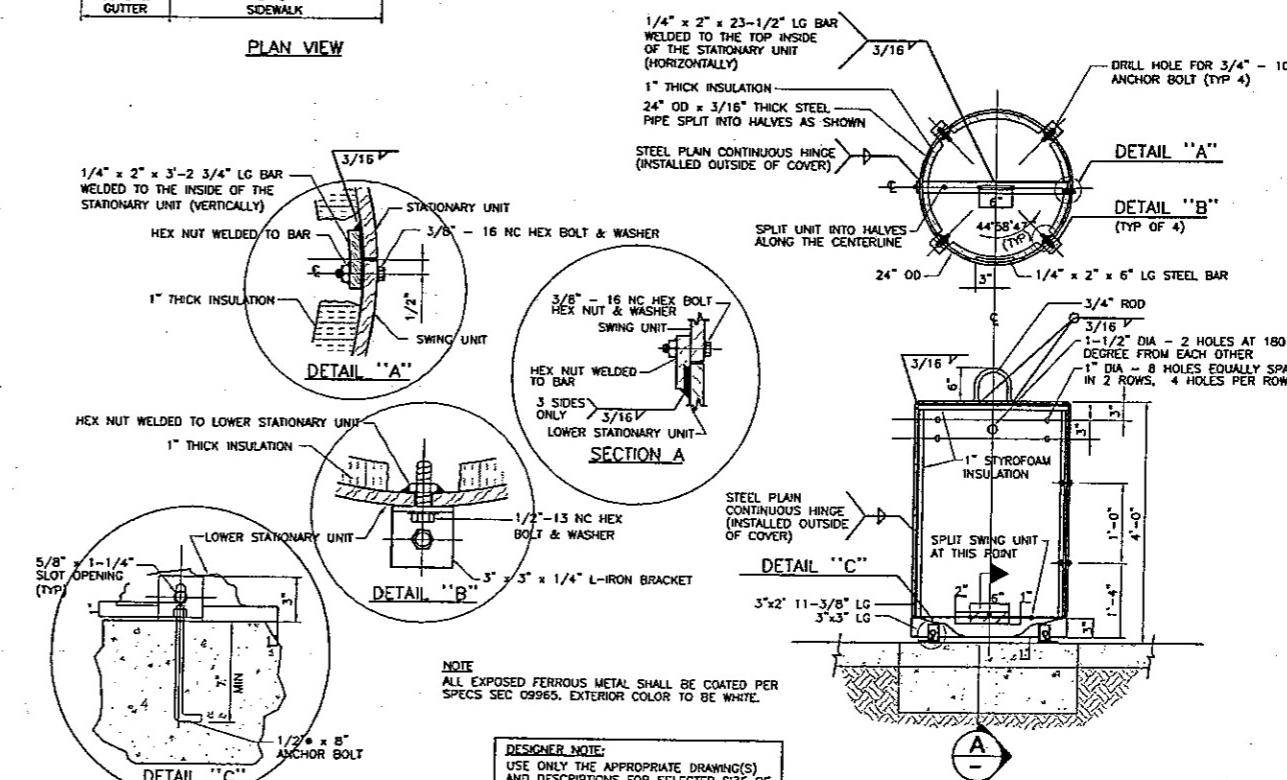
㉕ 4" x 3" FLG DUCTILE IRON REDUCER - FOR 3" COMB AIR VALVE ASSY

㉖ 4" x 2" OR 4" x 1" THREADED STL REDUCING FLANGE

㉗ DUCTILE IRON TEE'S, ETC.

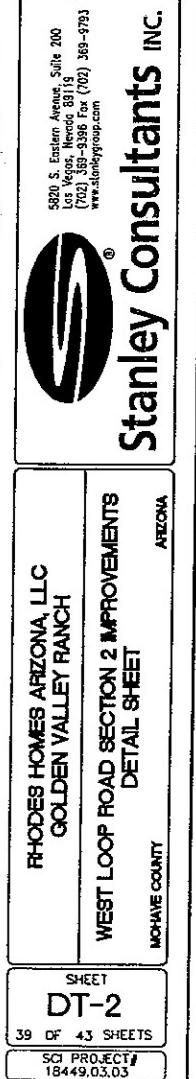


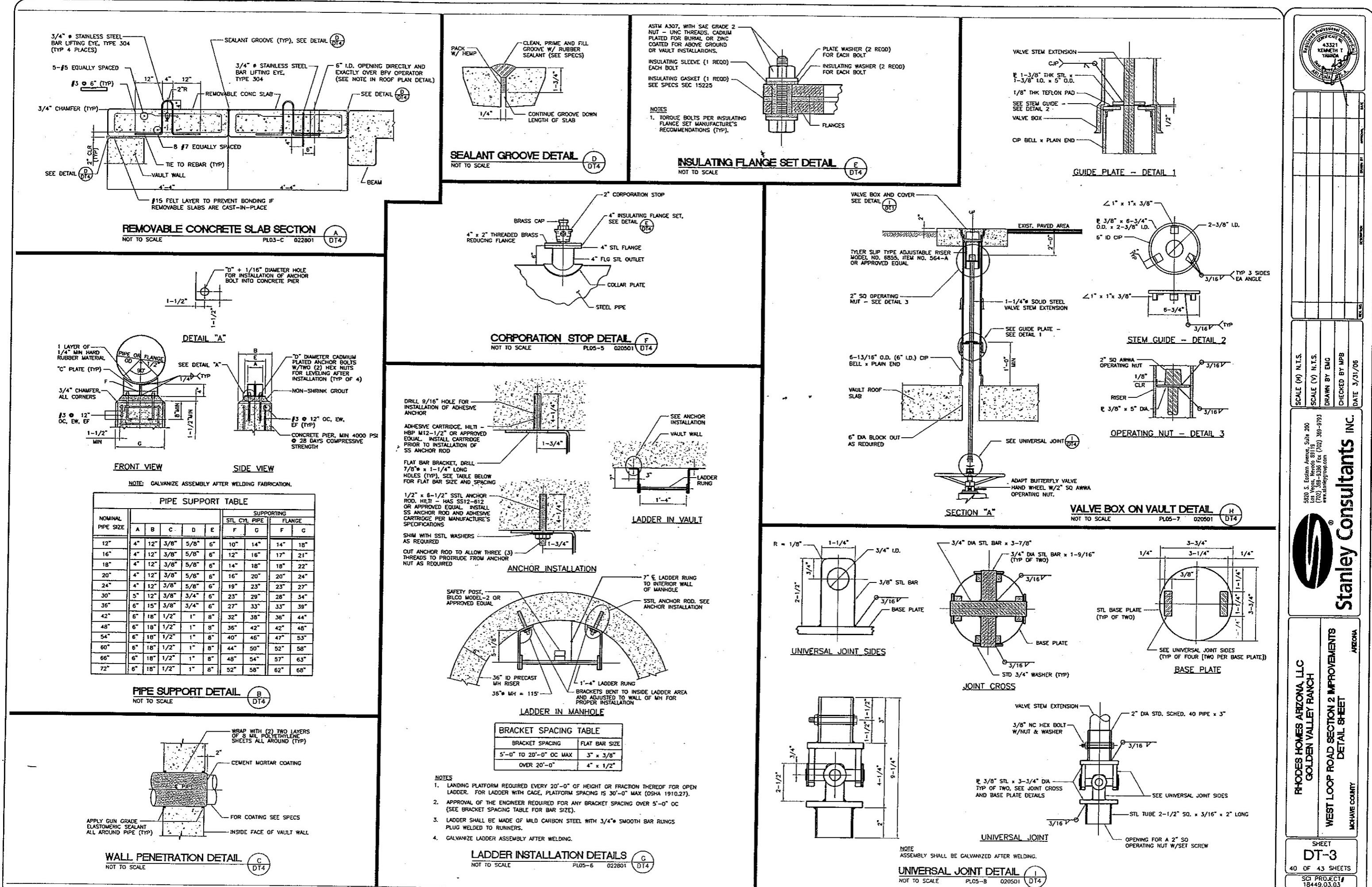
PLAN VIEW

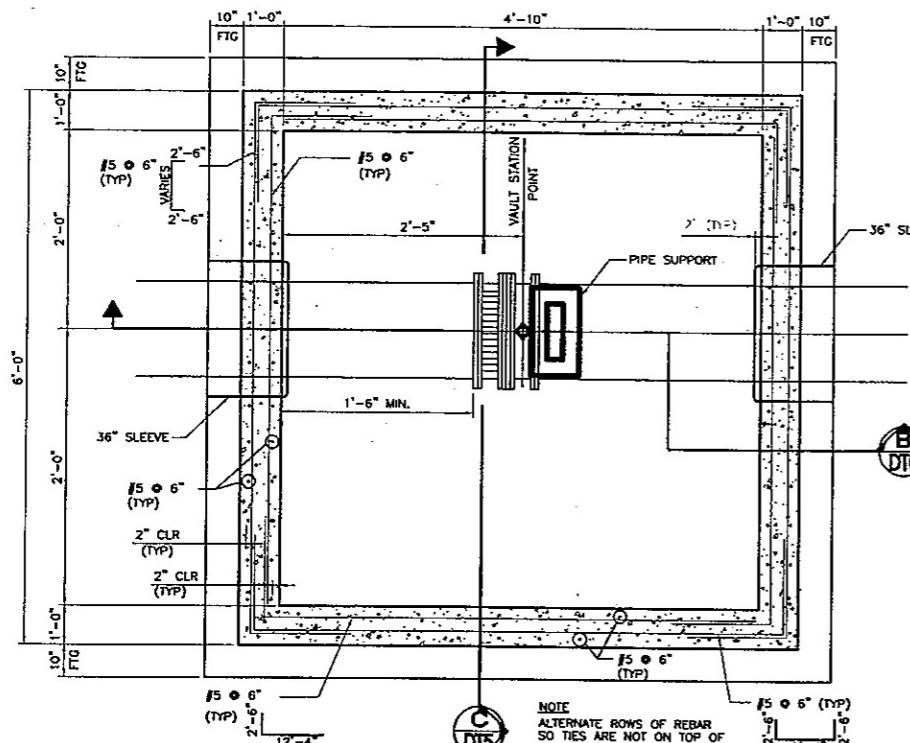


**COMBINATION AIR VALVE ASSEMBLY
FOR 1", 2", 3", AND 4" VALVES**

NOT TO SCALE







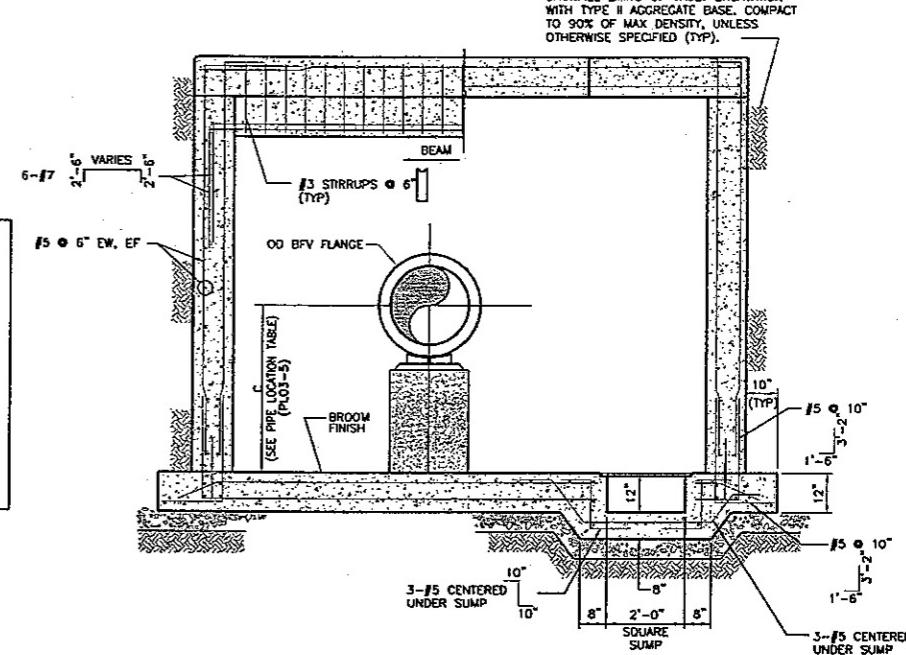
**VALVE VAULT SECTIONAL PLAN
WITH (1) VALVE AND NO TEE**

NOT TO SCALE

DESIGNER

1. EACH VAULT SHOWN ON THE PIPELINE PLAN SHALL BE DETAILED WITH A STRUCTURAL PLAN, A MECHANICAL PIPING PLAN AND ALL OTHER REQUIRED SECTIONS AND DETAILS. THE VAULT PLANS SHALL INDICATE THE PIPE LINE STATION REFERENCED TO THE VAULT STANCHION POINT, THE VAULT ORIENTATION TO NORTH, THE LOCATION AND PLAN ORIENTATION OF ALL OF THE VAULT APPEARANCES AND THE MANHOLE ACCESS COVER.
 2. EACH VAULT PLAN, SECTIONS AND DETAILS SHALL INDICATE ALL LAYOUT DIMENSIONS AS DETERMINED BY THE DESIGN ENGINEER OR AS REFERENCED TO DIMENSIONS ON THE "VAULT DIMENSION TABLE" PL03-6 AND THE "PIPE LOCATION TABLE" PL03-5 IN THESE STANDARD DETAILS.

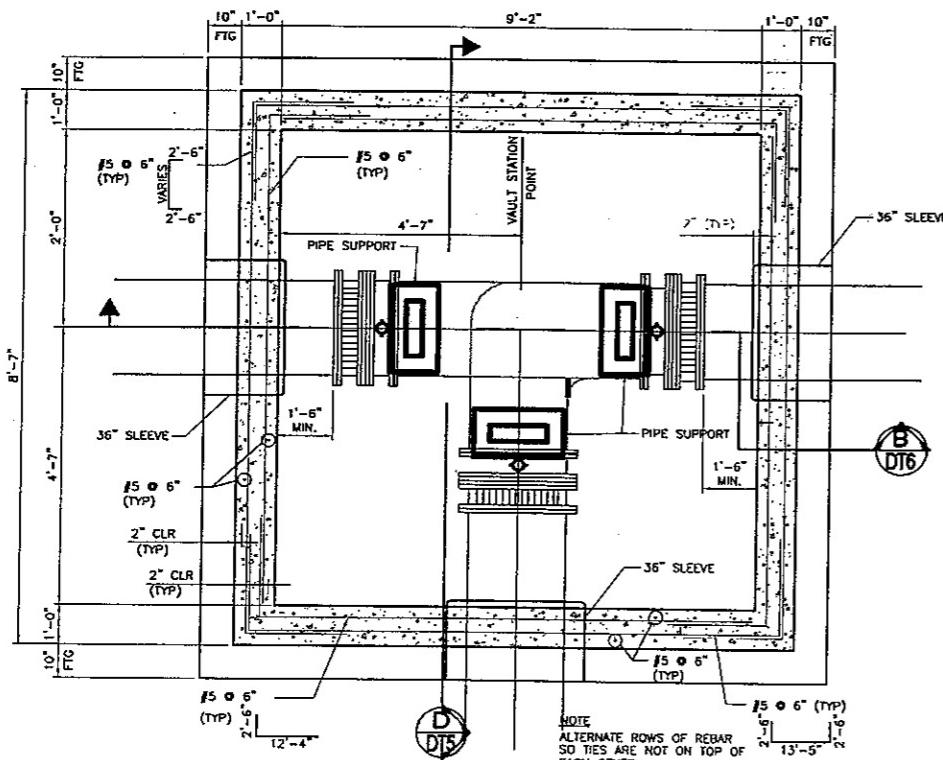
(DESIGNER NOTES TO BE DELETED FROM DRAWING)



**VALVE VAULT SECTION
WITH (1) VALVE AND NO TEE**

NOT TO SCALE

BACKFILL LIMITS OF VAULT EXCAVATION
WITH TYPE II AGGREGATE BASE, COMPAC
TO 90% OF MAX DENSITY, UNLESS
OTHERWISE SPECIFIED (MYL)



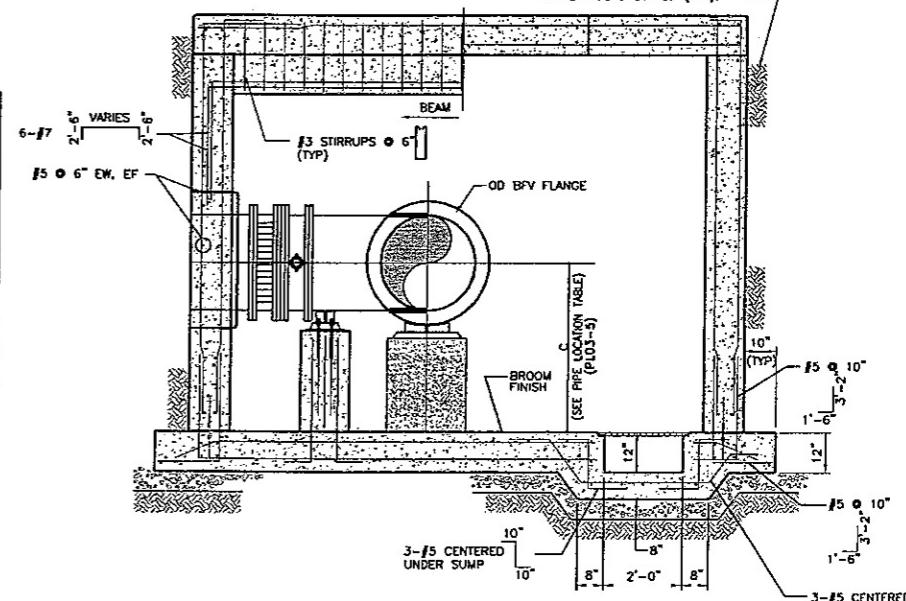
**VALVE VAULT SECTIONAL PLAN
WITH (3) VALVE AND TEE**

NOT TO SCALE

DESIGNER

1. EACH VAULT SHOWN ON THE PIPELINE PLAN SHALL BE PROVIDED WITH A STRUCTURAL PLAN, A MECHANICAL PIPING PLAN AND ALL OTHER REQUIRED SECTIONS AND DETAILS. THE VAULT PLANS SHALL INDICATE THE PIPE LINE STATION REFERENCED TO THE VAULT STANCHION POINT, THE VAULT ORIENTATION TO NORTH, THE LOCATION AND PLAN ORIENTATION OF ALL OF THE VAULT APPURTENANCES AND THE MANHOLE ACCESS COVER.
 2. EACH VAULT PLAN, SECTIONS AND DETAILS SHALL INDICATE ALL LAYOUT DIMENSIONS AS DETERMINED BY THE DESIGN ENGINEER OR AS REFERENCED TO DIMENSIONS ON THE VAULT DIMENSION TABLES PLO3-6 AND THE "PIPE LINE TABLE" PLO3-5 IN THESE STANDARD DETAILS.

(DEFINITION: WORDS TO BE DEFINED FROM DICTIONARY)



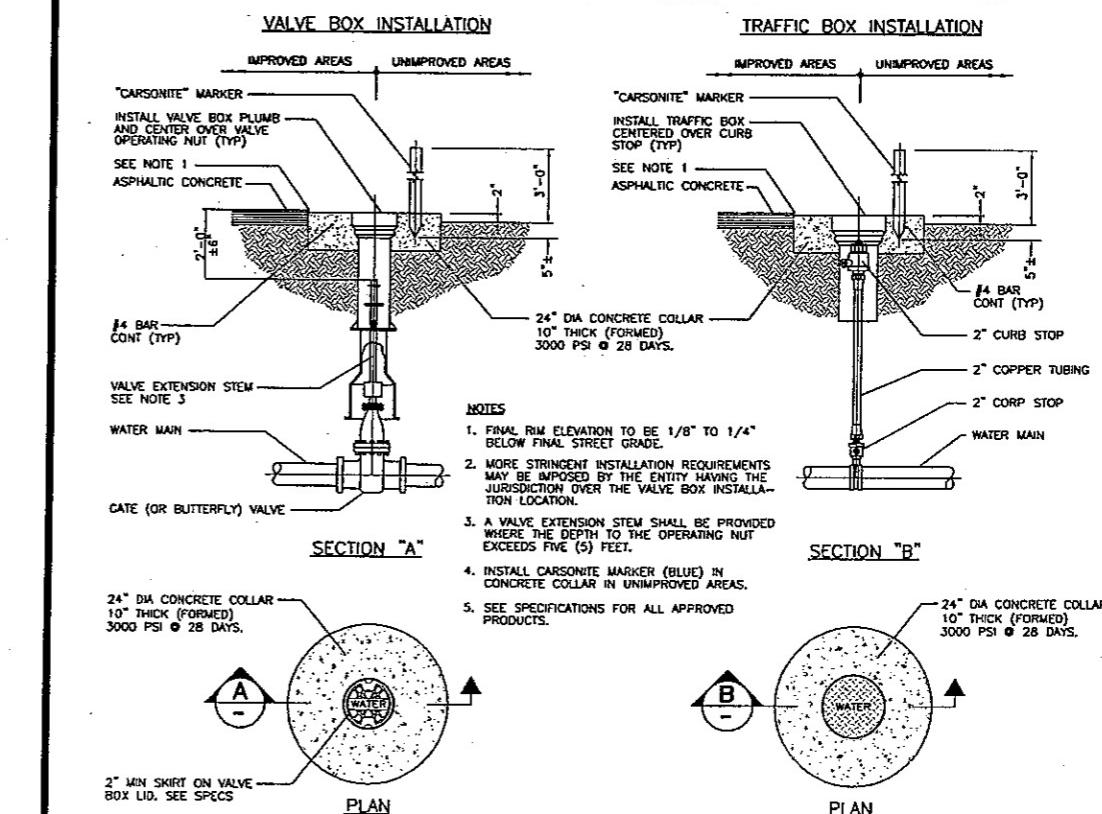
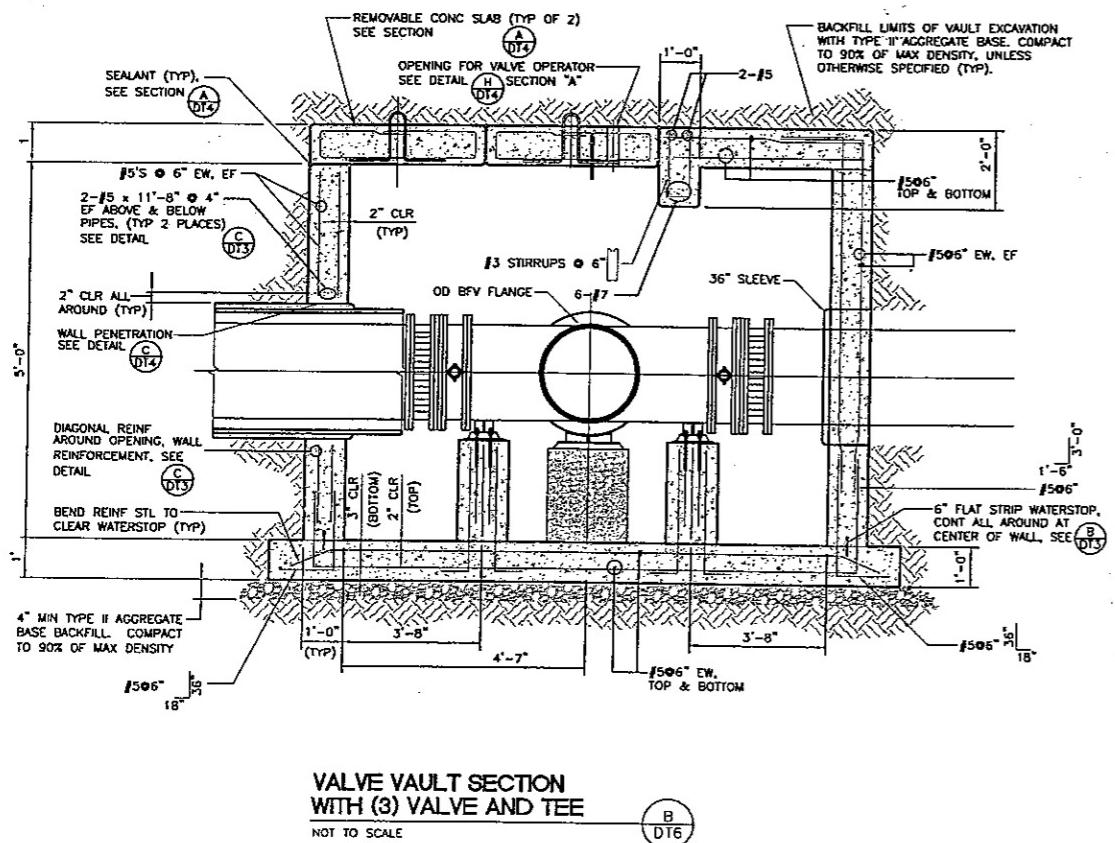
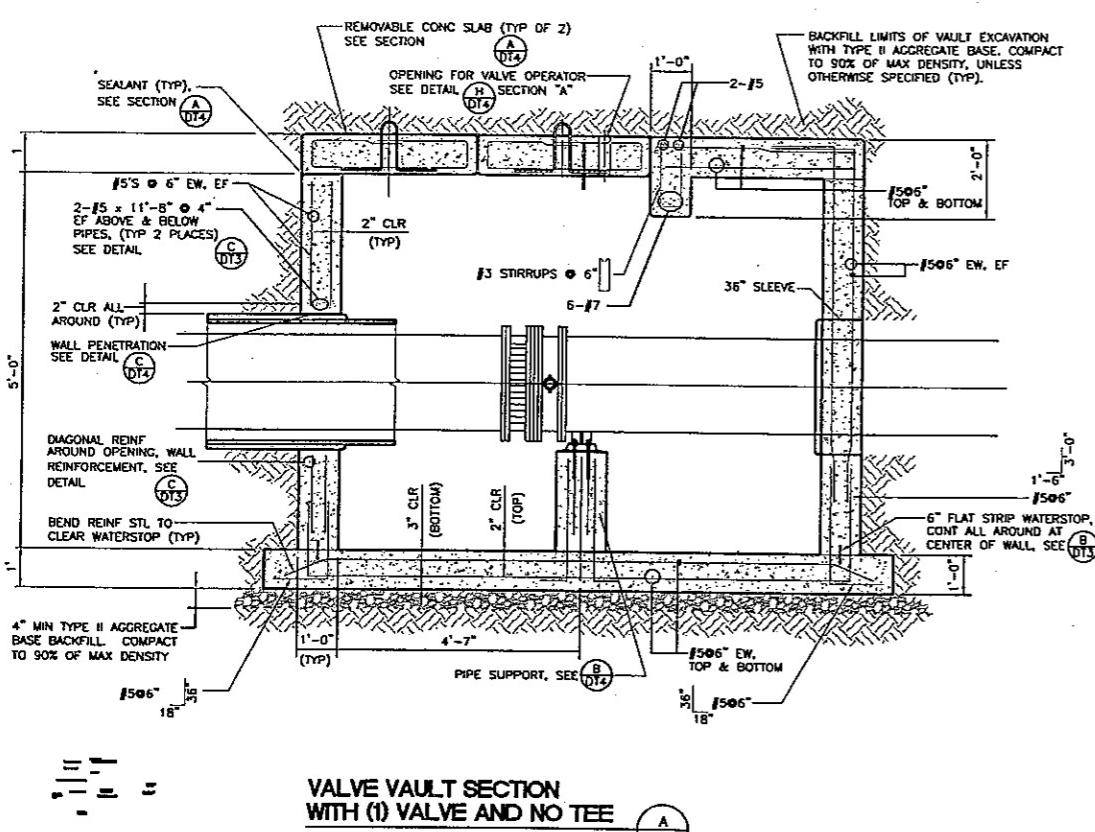
**VALVE VAULT SECTION
WITH (3) VALVE AND TEE**

NOT TO SCALE



WEST LOOP ROAD SECTION 2 IMPROVEMENTS
DETAIL SHEET

SHEET
DT-4
1 OF 43 SHEETS
SCI PROJECT#
18449.03.03



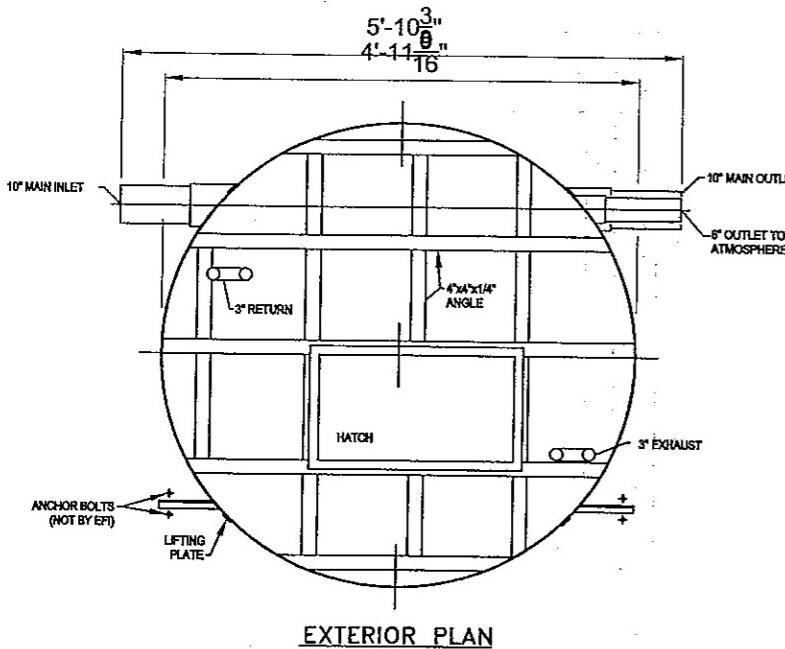
VALVE BOX AND TRAFFIC BOX INSTALLATION
NOT TO SCALE
PL10-8 012600 DT1



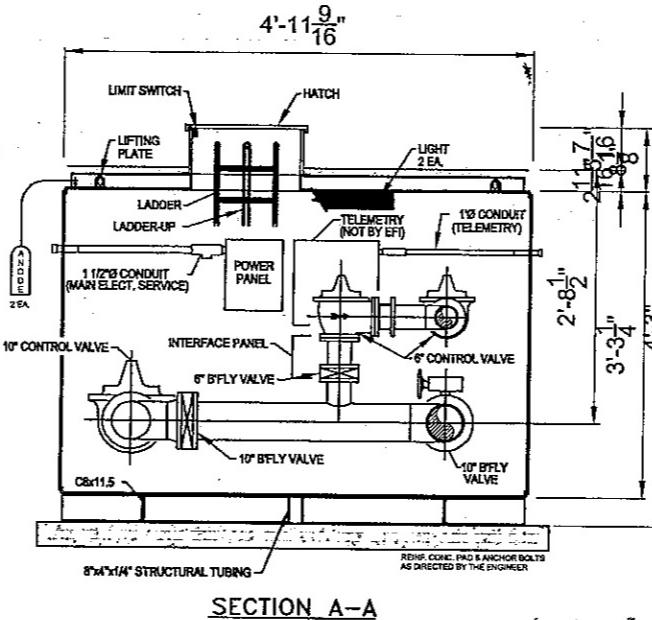
RHODES HOMES ARIZONA, LLC
GOLDEN VALLEY RANCH
WEST LOOP ROAD SECTION 2 IMPROVEMENTS
DETAIL SHEET
ARIZONA
MARICOPA COUNTY

DT-5
42 OF 43 SHEETS
SCI PROJECT #
18449.03.03

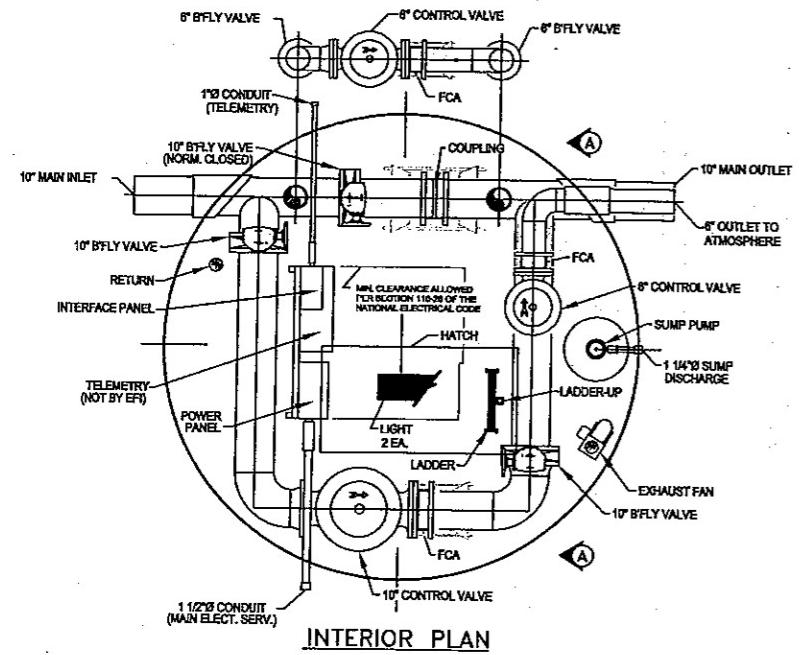
COPYRIGHT-ENGINEERED FLUID, INC.- 2006



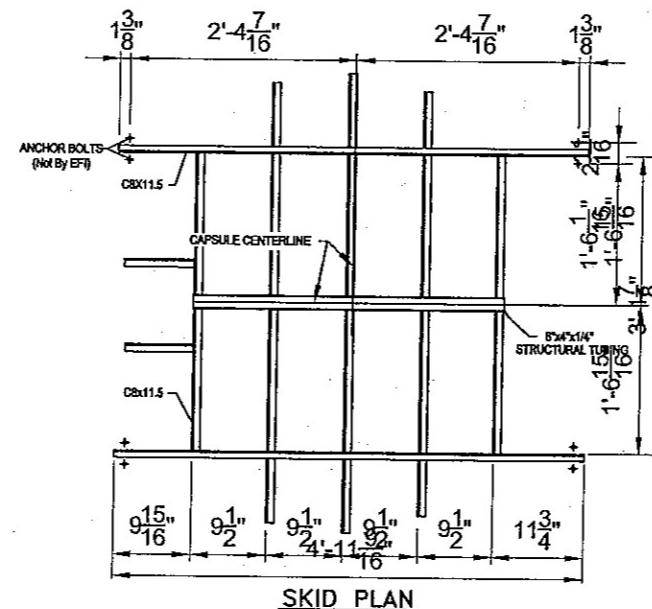
EXTERIOR PLAN



SECTION A-A



INTERIOR PLAN



SKID PLAN



ENGINEERED Fluid Inc

ENGINEERED FLOORING, INC.

PRESSURE REDUCING STATION

GOLDEN VALLEY RANCH, AZ

NOTE: PCA - FLANGED COUPLING ADAPTER
EPC - ELASTOMER PIPE CONNECTOR

SCALE: 1/2" = 1'-0"

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SHEET
PRV-1
1 OF 40 SHEETS

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